

SEQUENCE LISTING

<110> Rigshospitalet
Henrik Leffers
Anne Mette Buhl Hertz
Jorgen Kjems

<120> Methods and kits for diagnosing and
treating B-cell Chronic lymphocytic leukemia (B-CLL)

<130> P34546US01

<150> DK/PA 200201792

<151> 2002-11-19

<160> 43

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 19999

<212> DNA

<213> Homo Sapiens

<220>

<221> gene

<222> 40000-60000

<223> Sequence of ac063949.emhum

<400> 1

```
cacacgtagg ctacgagtgg cctcagcct gcctcatcat ggacctgtgt tataataaat 60
atgtttaatt gtgctgtttt cttatagagg aaagtcctga tgtagttgc cttgaagtca 120
gacaccaga gagaatcaca ggttttcaga ttaattcatc gcttgattct tatccctgaa 180
gtcatatctc tggatctctg gttctcacat tataaatttc aatgattctt tttctatatg 240
gccatgtcat tcatatcctg tgtaatatgg ggaaactgag gtatgaatga catcattcaa 300
aaagcacctg caatTTTTtT ttgccaaagca cttacagctt tttctcatgt tgctttcaaa 360
aagtcattga aatattgttc acatattttg cagatgagga aatgaatatt caaatgcatt 420
aggtatcttg tccaagttct tacagccaga aagtagagaa atgaatttga attacaaatc 480
ttctacctct tggcttatgc tcttttcatg acactgggaa taaatgtctg aacaagcatg 540
acttcatgtt tcaactatTT atcaaatact tgTTTTtTctac taagatcttg cactcactca 600
gtgggatccc ctgaagcctg ctgattatTT gtccTTtTggc atttatcact ctctgtggga 660
ccttactctc ctatggtaaa gTTTTattgt tattaAAagt attatttgac aataaatgta 720
gaaatcctac agatcatact caacaacatg tctaattgtc gcacacaatg tctaacaatc 780
atTTtatgaat actTTtatgtc aaacataagc aataacctaA ttaaggaagg tatttttAat 840
aaattgacac tTTTtgacat aaccatattt caagtggctc cattgtTTtTg tttatttatt 900
tattttattta tttatttatt tattttttgag aaagggTctc actctgttgc ccagactgga 960
gtgcagtggc aacatcatag ctactacag cctcgacctc tctgggctca agcaatcctc 1020
ccatctcagc ttcccaagta gctgggacta caggtgtgta ccatcatgcc aggctaattt 1080
ttcgtatttt gtagagacgg ggTTTTgcct ggtcgtccgg gttggtctca aactcctggg 1140
tgttccgccc accttgccct cccaaagtgc tgggattata ggcatgagcc tcaagtggct 1200
actTTTTagg gttgaaattt atattgactg tcaactagct tccctagtta gtatttggga 1260
tctgctaact aatttatatt accatccaac ttgtcaacat ttgttgaaat ataactgtcc 1320
tcactTTTTt tgtgtgaaca ttgaatacac tttcagacta aatttggttt attacttaat 1380
gtcttattct ttattagagt taataatatt tcttaatact ttgccttcca caaatgaata 1440
acttgTTtgt gatggctacc tctTTTTttc tcttagcctg tcacaggtat tatggataaa 1500
```

aattagcacg	gctgggcaaa	aacaatgaaa	gaaatacact	tgcttgggaa	agctggggag	1560
gggtaaatga	atataattca	aaataccata	tattttattca	acactgttgg	aatatatgtc	1620
ctgttggaag	tgtaaaagt	acatatgttc	tcttctctggg	tctcagactt	ttaggatcta	1680
gttgagggaa	ctggacttat	acacaaaata	caattcaaca	acattatgag	ctagaaaatc	1740
catgagctaa	agtctttggc	aaagacatta	ggtaacatga	ggagtcagga	aaaggagaaa	1800
ttactgtggg	ctggaatggg	ctgggaacat	gagatggagg	aagtggcttg	ttactggaga	1860
aaggatgagg	ttcaaagaga	tgggaaaaaa	agaaagagag	aagaaagaaa	agaaatgagg	1920
aaaaacaagt	tgccagaaa	aacaaggaag	aatagaggca	ggtaagcagt	ggattttgcc	1980
ctaggggaag	taatataact	agagacggca	gtttctaaaca	ggccatgatg	aataagatac	2040
acttttagccc	tcatttggtac	gtgcagaaat	tcaaatttgg	aaattcaagc	ttacatgaca	2100
gtaaatatat	gttgggaaaa	aaataaccgg	taaacattta	catcagctct	ttttcctaaa	2160
gagaaaccta	ttccatgcta	tgaaatat	gtcaccaattc	tgttttcaaa	atacttgctc	2220
tactttttcca	agccacaaga	ggaaacattt	tctctgccaa	cactctctga	ccttaaccag	2280
tttctccact	acgtctactc	ttaagctctc	tttagagctg	tgtgtatctc	gtctttatgt	2340
aaacctccta	gatgatatac	ttatggaaat	attcaggcaa	ctttttcatg	aactttacca	2400
ggaaagacat	ttctagcagg	agagcatgaa	tagaaatgga	ctcttcccca	gtctctgctg	2460
ggttctgact	gtggctcact	taactataaa	aagtgtgtaa	aatcatgag	cagattat	2520
cattttcttg	gggtccctaa	aaatttcaag	gtatctgtat	tagcacagga	agatttaaat	2580
tgattttctca	acacattctag	atatcttattg	aactttatta	agataaattt	cctccagcat	2640
tcagaaactc	atatattaca	gaataaaaaa	taaagcagaa	aattagtgt	cctggctaaa	2700
aatgagagca	gggttctatt	tcatttttga	aagtcactaa	gacagtaata	ataccattaa	2760
tgataaaatg	ttaacattag	ttaattatta	gatgtgtttt	tgtatgccag	ccacataata	2820
tatacttttta	tatgtatcac	ctacatttct	agatgtaaat	gtgagggaat	tatagtagta	2880
tctacctcgt	atgattgctg	gatgatttaa	atgagctgtt	gtctcaaaaa	cttggtatag	2940
aaagcagaaa	cttttagtta	ttaagattct	tactattcca	atatttgaat	aaaacagtga	3000
cctgctaaga	aaccccaata	atattctgat	acatcaaaac	cttctggcat	tagatgtttc	3060
taatctaaca	tcttcatatt	aattttttta	tgttttgatt	atctacattc	agtagtgaat	3120
gtgtttctaa	acgtctggatg	cattttttaac	taaatgtgtt	ttgtaccaca	ttttgacaac	3180
ttttgtttta	actatgattc	agcttataac	aaaacaaaaac	aatgcatctt	ctctccactg	3240
ttaataaggt	taatgaaaag	ttgacttatg	aaaaaaatcc	taatttatgc	acattctcat	3300
tgtttttcctt	gctaaggata	ttagtacttg	acgattctgt	aacaaagaat	tatcatggga	3360
tgaaactttg	atgcaaatat	cttatcaata	caatgtgctt	gattttacct	agatgagatt	3420
tttcttttct	tctttctttt	ttgagacagg	gttttgctgt	gttaccagg	ctagcctcaa	3480
acccttgccc	cctggcctca	agtgatcctc	tcacctctgc	ctcccaaagt	gctgggtatt	3540
acagatgtga	gtcactgaat	ccagcctcac	ttagtggct	ttcttagtga	attattttat	3600
ctgggttctaa	aactttttga	taatactctc	aaatatattat	ggattttata	acataattta	3660
tggattacgt	agttatgaat	ttcataaatg	attttgtgat	attgccacag	atcatacca	3720
ttatacagga	tgataaacat	aaccatgggt	tataatat	tcataaacta	tagaccaaac	3780
aaagactggg	caggaccagg	gcacgcgatg	attttatatg	tgtgggtgcct	attggaatat	3840
gccaggcctc	ctgtgaaaaa	aatcagtaag	tgcttatctc	ataggaccaa	cggcccaaca	3900
ttcctgaagt	cactaccaca	ctttgcactt	atctccatgt	ggaaatagat	agccactgtt	3960
gaattctggg	gagaacgaca	cgtctgaaat	ctctcagctt	cacaaccctt	attacagccc	4020
tcagagaatc	ttctcacata	gcgccaacaa	acaactttag	gaagtgatgt	tcctagaatg	4080
aatcaatttc	taaaattaaa	agtgaacaca	atgacaagga	gaagggaggg	tcagagagga	4140
aaggctgatg	ttactaaaag	acaaaagaca	gtataacctc	ttatgaggat	gggtccagaca	4200
ctcagggaaa	tgcaggaaga	aataaaaagat	aggagtttga	accacactgt	gatggctaac	4260
tttatgtgtg	gacccgaccg	atctatggga	caccagata	gcttgtaaag	cactatttct	4320
gggtgcgtca	gtgaggggtg	ttttggaaga	gatcaacact	tgagtcagta	gactgagtaa	4380
agcagatggg	cctcaccaat	gtgggtgcac	attgtttaat	ctgttgagtg	cctggataga	4440
caaaaaaggc	aaaagaaggg	tgaattccct	ttctcgtctt	aagctgggac	agccatcctt	4500
tctaccctc	agacatgaga	ggtttggatt	cttggtatct	tggtcccaag	ggctgacact	4560
gggtggccacc	tctggtttca	ggctcttggc	cccagattgt	aagttacacc	atcagcttcc	4620
ttgggtcttg	ggccttgaga	ctcaagctaa	aatacactac	cagcttccct	tgttctctag	4680
tgtagggaca	gcaaatcatg	aaaccttctg	cctccataat	catataagtc	aattcccgt	4740
ataaatctgt	gcttatatat	ctatagcttt	ccttttgggc	tgtttctcca	aagaacctta	4800
atgtacacac	tatgtgacct	aacctgtagt	aatgataacc	ttatgcagg	ttgaataaga	4860
tgatgggtatt	ctcagtatct	gggaggtatg	ggctagagtg	atgaaccacc	gcatgagcc	4920

taggactgag	gagatttctg	aaatgtggaa	tatttggtgt	caaaaccaag	agataatata	4980
gccatgtgga	aaacatgtag	aactatcgta	tgattcagca	acccaaccac	tgggaattta	5040
cccaaaggaa	aggaaaccag	tatattaaag	agaatctgca	ctcccatggt	tattgcagca	5100
ttattctcaa	tagcctagat	atggactcaa	cctaggagat	tagatgaatg	gacaaagaaa	5160
atgtggcata	tgtacaccat	gaaatactta	ccagctataa	aaaagaatta	gccaaagcag	5220
tgggtgtgtc	ctgtcatccc	agctccttgg	gaggctgagg	tgggaagatc	tcgaggccag	5280
aagtttgaga	ccagcctggg	caaaataata	agactcggtc	tctaaaacaa	tttaaaaata	5340
ggccttcctt	aaaaaaaagaa	taaaatcatg	tcattcacgg	caacatagat	gggactggag	5400
gatattactg	ttaagtgaag	ttagccagga	acagcaagtt	aaaccccaca	tattctgatt	5460
catatgcgga	agctaaaaaa	acgttgatct	catagaagta	aaaagtagaa	cagaggatgc	5520
tggagactag	aaaaggtagg	gagaaggaag	ggagagggaa	aaatttggtta	acagggtacaa	5580
aaacaaaatt	acagttagtt	agggagaatt	aattccagca	tcctgtagca	ctataggatg	5640
actatagtta	ataataatac	tttaattagt	ctcaaatagc	tagaaggagg	atattgaatg	5700
ttcccaacac	acacaaaaaa	atgataatgt	atgagatgat	ggatatggta	gttatcctga	5760
tctgatcact	ctacattata	tgtatcaaca	catcactatg	tacccacaa	atatgtagaa	5820
tttttatttg	tccattttaa	aaagataaca	aatttataaa	taaaataaaa	actaaattag	5880
tgttccatgt	aaacctggat	gaactgggtc	ccctacgtct	gcccactctag	atggctggctg	5940
aaagtttccc	aggctccaca	tcaagttggt	ccactgctca	ctggaacttc	cctagtcagg	6000
ttgggcaaat	agtaattttac	agcaatagtg	aatttatcac	tgacatttct	tcagttcccc	6060
tctttggcat	ctgcttcttc	ttttctgtaa	tgctgtttgt	tgaaatgccc	aacattcttt	6120
ttcttcccta	gagctattca	gggtgacctt	tcttttcgca	ttttcccatg	ccacttccat	6180
tatatcaaaa	taaaacagtc	ctgtgtggcc	actgctcatg	accttgtttc	ctgccatgtg	6240
aagataggat	cggctgctct	ttcttctcct	cctttttttt	cagagacagg	atctctccct	6300
gtcaccacaga	ctggagtgc	atggcacagt	cgtagcttgc	tgcagcctcg	aactcctgga	6360
cctcctcagc	ctcctgagta	gctgggacta	caggtgcaca	ccaccatgcc	ttcctaattct	6420
gatatatata	tatatatata	ttatatatat	aaaatatata	tataaatata	tatatattat	6480
atattatata	tataatatat	atattttata	tataaaatat	atatattata	tatatatatt	6540
atatataaaa	tatatatatt	atatatatat	atatatatta	tagagatggg	gtcttgctct	6600
gtcaccacagg	ctgaagatca	gctgctcttt	ctaactctgtg	gttagataag	atctgtctcc	6660
caggggataa	aatactacct	ggaataaagg	tatctttaa	ataatccag	agaagaaaac	6720
atttttatag	tatgacagag	gcagagaaaa	cagagaatat	ttgttaaggc	aggactttca	6780
ccactccag	tacaatcatc	tgtctgttac	ctgcatacct	tacacgggct	ggcactgctg	6840
ggggtacaaa	gtagatgcca	aaacttcacaa	tgggttagatt	catgttttaa	aagccattgg	6900
atcaaacctt	tgtgaaagtt	tccagctttt	ttctgttcca	aatatgtgtc	cattataaaa	6960
gaatctcaag	agcataattg	ccaagatagt	ctatgtccat	gagtatttca	acatctctca	7020
tgaactctgt	tcccatcatt	actcaagata	ttgtatgaac	agtattccac	ataaactagg	7080
tgtcaataaa	tgattgattg	gccaatggag	ggtcattatt	taatgcacta	caatctttta	7140
tgcaaggggc	ccacaggaat	cagtatgac	ccataggaat	ccttttcttt	tccattgaaa	7200
aagaacacaga	tagtggcctg	tattaggttt	cctgtgtgtg	ttgtgaggtg	gaaagatatg	7260
aaaagaaatt	tgatcagagc	ataaatctga	gcccattgga	taggaaagaa	tgagggaata	7320
aggaagaaaa	cacagattat	agacaggaaa	atcaaacctc	ttaaaactga	taatttttca	7380
atactaaaaa	tgtacattca	tttgaacaaa	aagattctat	aaagcaagat	ttctctgttc	7440
ttaccagcac	taccatgccc	aaactacctt	aggaaatgaa	tagcagagtc	aaacttaaaa	7500
gcacctgaaa	tttaaaaacaa	aaaccaattt	acattttatt	taagaaaagc	aaacagatgg	7560
gcctgctaac	aatgtcaaag	tctcgtttac	aaagaaaaaa	acaaatctgg	aacctgaagt	7620
caaacgagtt	caaaataaaa	agcaaaccac	taaacagaaa	ccaacataaa	cagaagttac	7680
taccatctcc	ctcagcctgt	gaaattctgg	aacttctctt	tctttctcgc	cttcttcttc	7740
tctcaacctg	aagacgagca	gagtgaacac	atcaggggtt	gtcagttccc	cagatggcac	7800
cacattcata	aaccaccgac	tccaggagaa	tgtaggaagc	ttagttaagg	ccaaagttct	7860
ctttggatct	tcctcatggg	cttcaaggca	aaagaaaaaa	aagtttgctt	gagaatatct	7920
tcatatctat	tagtttgaac	catgcaaaat	tacagttttt	ataggtaaaa	tgagtgcata	7980
ttggcaattt	caaatgatta	accctaatac	attatgcttt	tgggtataga	aatattcaga	8040
tcttaaacad	atgctgttac	atacaaaatc	aggatatatt	ctgcttctat	aattaaagca	8100
aagagaattt	cttttgggtc	ctactccttc	tgacatgagg	tatgaaccaa	gttcaggacc	8160
cctaaaggtc	tgggtctggg	tcatttctcc	acctctaact	tgtgccgctt	tcttgggtcag	8220
tcattgtgtt	ctgagctgtc	tcataaaaac	tctgctatga	ctttactttc	tcctgatagg	8280
gtggccttcc	atcgttggca	cttcgttggc	cttattggta	tgctttatac	actgggtctc	8340

gtttccaaat	tggcattatt	attgttatga	ttcctgctgc	tctccacat	ttcccatctt	8400
tctcctgac	tctctcacct	gtacatttct	tacattttct	cctgtgcttc	cttcttccca	8460
tcatcattgc	ccaagtgtgt	cttcttttct	ctccttgctca	catttccttt	gcccgtcttc	8520
acatatgcag	agatggctct	tggtttttct	tctgaaatct	catagtttgg	aggtaaactt	8580
gtagcaagg	ccactgagaa	gagaacaaaa	gggaaacata	agagaaacca	agtcactatc	8640
tctctcattt	cctggtttct	agaagtaaga	cccaaagaac	tactgttttc	agtgttttca	8700
gctcaggcca	aactagggtg	atcaaactga	gcttctgagt	gctgatcaaa	acctataaaa	8760
ccaagtagac	agaccatcta	caaactttca	ctgttaaata	ccataaagaa	tgaaaagggtc	8820
actaattggg	aagactatat	gtgtgataat	taaattttatg	catcaacctg	gctaggctaa	8880
aggatgacca	ggtagctggg	aaaacattat	tctgggtgtg	tccataagag	tgttttcgga	8940
agagatcagc	atttgaattg	gtgaacttag	taaagcagac	ggctctcacc	aataagggca	9000
ggcatcatcc	aatctgtcga	aagcttgaat	aaaacaaaaa	gaggaaggga	aaatttgctt	9060
cttttcttct	tgatctagta	tatcatcttc	tcctgcccct	ggatgtgagt	gggccttcag	9120
acttaaacca	ggagttacac	ctttggcttc	cctggttctc	agttctttgg	acttggactg	9180
aattacactg	ccaggtttcc	tggttctcca	gcttgccagt	ggcagatcat	gggacttctt	9240
ggcctccata	attgtgtgag	tcaattttcca	ttttattttac	atatccagtt	atgcattgct	9300
taacaatgga	gacaggttct	gagaaatgca	ttgttaagtg	atttcatcat	tgtgcaaaca	9360
tcataagagt	aacctggaca	gcatagacta	gataagtatg	ctacacatct	aggctacatg	9420
gtgtagcttg	taacctcatg	ataagtatgt	ataacatcat	gataagtatg	tatgtatcta	9480
ccatatctaa	atgtagaaaa	ggtacagtaa	aaatatggta	taatcttatg	ggatcaccat	9540
catatatgca	atccttttga	gactgaaatg	tcatttgtga	gtgcatgact	gtatacgcac	9600
acatacacaa	acacacacaa	atatactatt	ggttcttttt	ctctgaagag	ccctaataca	9660
atatgttata	cattttatatt	gactctattt	caaaattttat	ggttttgggtg	aaacatatgt	9720
ggagatgggg	cataggtgtg	tgaactggga	tagtgtcctg	ctgatgaatg	gggtgggaggc	9780
atcatttggg	acaagcccag	ggcatcagct	tatagatatc	aagagctcaa	caagagcact	9840
ttatggcaaa	acctcccaca	agacctctca	gaagttgaga	aactgctaaa	agtttcttta	9900
tgacagatga	cattttatgga	taaaataggg	attagcagga	ttctttaaat	actttcgaac	9960
actaaccttc	atttctacca	ggcagtgggg	ccccaagtgc	agggccatag	gaagtacaag	10020
tctgggagat	actaggctgc	actgtctgta	gagaatctga	aaaaataata	gagtcactga	10080
aatgcagttt	ggtataatta	ttgccatgca	tcataattct	aaatcatact	agtgggtcaaa	10140
tactcttccc	tgaaaaaaca	ttttcttggg	ttgaattcta	aataattggt	gtggtcacca	10200
ctgagctttt	aaatatataa	atactttcaa	gtttgcatat	ttttattacc	tgttccttaa	10260
caaacattga	attcaacatg	aaaatgatta	tgggaaacat	tcgggtatac	agtccttgac	10320
tcttaaggac	tcaggtaaat	acttagggta	tttcatggcc	ctagtctttg	gggtaccaca	10380
tgtttcttct	tcaaatacaca	gattcaaaat	caagaatgat	aacacagtga	ttgtgtagac	10440
aaaataagtg	aaccaaaatt	gcttgcttct	gtcattctat	ggaaccactg	agagttttta	10500
cttgtgctta	aaattttgaa	tagtaaaaca	gagtgctcaac	ttcatgctgg	aatatttttg	10560
gcttttttaga	cacaatttta	agtaaatgaa	gtattttttac	aagactaagt	aacatcactg	10620
aaattacagc	tttcttcttt	ttaaaactgg	tatttgttat	aaaactaaag	agcgaatcaa	10680
gaaaagcata	attattactg	attattacag	gattattact	gaaaaagaaa	tgtacggaat	10740
agaggaggaa	ggagttaaca	aatgatccac	tctgggtgtt	gaaaacacca	ataagcctgc	10800
ttccaggaag	tgccaaagac	agagctggct	cagcttgctg	ggtcacagca	tgtaaggaaa	10860
ctgctgggct	acatgccacc	atcctcagtt	gtccagatag	ataatcccat	agccccatgg	10920
ggaaataatc	tttaattatg	atatagctga	caccattcaa	agcactatgc	taagtccttt	10980
atgtgaatta	actttttgtca	aattttatttt	tcataaataa	cccaaatatg	tataccacta	11040
ttatcctacc	ttaaagagga	gaaactgagc	tcctaaagtt	taaatatcta	acccaagtta	11100
agactgctag	tcaccctagg	ctattaactc	aggcagtcta	actcaggtat	aataacatta	11160
tgctactggt	tgcagctttg	actatgcctg	aattataacg	tcatgctatc	taactaaaaa	11220
gctaagggaa	ataaaatgag	ccatagggct	caatttcata	aaaggagaga	aaatactggg	11280
gaaaagtgat	aatgcagagt	ttaaaatatt	tttgtaaaaag	tgccagagat	tgagtataac	11340
aagtgtgacc	aaaaaaaaaa	aaaaaaaaaa	aaaaggaaga	aggtaaaaaa	aagagggagg	11400
tctgagaaat	agaaatatca	gaggaaggaa	ataaaggagg	gtgagagtaa	atttctctttt	11460
agcattcaga	ttccacagat	tccacaaatc	acatttcttt	ttttaccaac	taaggaaaaa	11520
taacacttga	cctaacattt	cattgcagtt	agctaaagga	tgctagaaaa	actatgttgc	11580
agtgggttgc	tctaatttct	tcaggaatag	agaaaagtga	caaaaagatc	agagaagaga	11640
agaaaggaaa	ctatcagaaa	aatacagaat	tggagtagga	tataacatat	ttgggttgaa	11700
ggtaaaattt	tatattgtaa	tcttaagtat	cttgctactt	cagtttggtc	cctggaacag	11760

cagcatcaga	atctgccgag	ggcttggttaa	aaaggcagaa	tctcaggtcc	catcccagac	11820
tcactgaatc	agaatataaa	tactgacaag	atgccccggg	attcatatgc	acagtagagc	11880
tggcgaagtt	ccattgtagc	ctgtgattgt	tttctgcaac	ttagtatttc	tgagttttcc	11940
caaggaagaa	aaccaggcc	ttagcttctg	gcagacttgt	gtttctcctt	tacttactag	12000
ctgcatgact	catgagcaag	gaaatcaaac	tttatgtgcc	tgagtttcct	catctataaa	12060
atggagacta	taataatcat	ctcctaggct	tgttttgagg	atgttcaaca	aatgctcctt	12120
tcattcctct	atttacagac	ctgccgcaga	caattctgct	agcagccttt	gtgctattat	12180
ctgtttttcta	aacttagtaa	ttgagtgtga	tctggagact	aactctgaaa	taaataagct	12240
gattatttat	ttattttctc	aaaacaacag	aatacgattt	agcaaattac	ttcttaagat	12300
attattttac	atttctatat	tctcctaccc	tgagttgatg	tgtgagcaat	atgtcacttt	12360
cataaagcca	ggtatacatt	atggacaggt	aagtaaaaaa	catattattt	attctacggt	12420
tttgtccaaa	aattttaaat	ttcaactggt	gcgcgtgtgt	tggtaatgta	aaacaaactc	12480
agtacagtag	tattcagtac	agtatttaag	cccctgtact	taaacatatt	cctcgtacca	12540
atgaagttac	atgaaaagca	aatttgtgtg	agatatcgta	gatggaagta	aattagtctt	12600
tatgttcccc	acaaattgaa	atgcatttca	aaaactctgt	gtgtgtatgt	gtgtgtgtga	12660
cagagtgtgt	gtgagagaga	gacagagaga	tacgctttgg	ttgcctccat	aagctggctg	12720
ctatgattaa	taagaccaag	ttttctaaag	aaaatgagat	cataacaaaa	gccctcttta	12780
tgactatctt	ttatcagggg	caaaaaggaa	agagacaaaa	cagcatgaaa	tgatgagacc	12840
aagtgatgaa	aatttcattca	caatgattgc	tttcaagagt	aatttctctt	gggtaattca	12900
gcagcctggt	actatggctc	tctggagtga	tagctaattgt	aaatgaagcc	tctaaaagtg	12960
gattatcctg	acaagaatat	actcagccaa	taatgcaaca	gaaatccatt	caaagcattc	13020
gggaaaaatt	caaaagaata	aatattcttt	tttttttttt	aaagttaatg	acctacgac	13080
catttcttcc	ctgactaaca	agcagcaagc	acttaaaaaat	atccagccag	gatgaaatag	13140
aaaccacact	gacttggttaa	tatttttgtt	tgggtccagg	gactcagatt	ctaagccaaa	13200
ttctttgaat	gatcttggca	aatgtctcga	attatttttg	ccaacttttc	tttatcttgg	13260
aaaaaaagtt	tcatgaatgg	gtgtcaaaat	tgattagttt	taaaaacctt	tcttgcagat	13320
acgtatggca	ccctaaaact	gtattagaaa	aaaagtaagt	actctgtagt	gtgaaaaatt	13380
cttaaaggac	accctctttt	acaaactcac	aaaaacagcc	tttggataac	ccacatgaag	13440
tagctgttgt	tattgctttc	tatataccta	catcttgtct	attataaaaa	gactgggttt	13500
tggcaggtgt	ggtggctcac	acctgtaatt	ccagcacttt	gggaggccaa	ggcgggcgga	13560
tcacctgaga	tcaggagttc	aggaccagcc	tgatcaatat	ggtgaaaccc	agtctttact	13620
gaaaatacaa	aaatcacccg	ggtgtggtga	cgggcgcctg	tagtcccagc	tactcggtta	13680
gctgaggcag	gagaatcact	tgaactcagg	agtcagaggt	tgacgtgagc	tgagatcatg	13740
ccactgcact	ccagcctggg	tgacagagca	agactccatc	tcaaaaaaaaa	aaaaaaaaaa	13800
gactggtttt	tcaacagcta	ttcccacccc	tctgcatgga	aatattcacc	cagtcaattg	13860
ttttcctagt	ttgggtaatg	gccctctggg	caggactgga	gtggggcaca	caggagaagc	13920
tgcaaaactat	gtttagaagc	atgtctggga	aatgtcatgc	aagaaaagac	atattttaaag	13980
gtaggctttg	catgaatgga	aaaggagagt	aattctatgt	agagcagagc	ctcttacttg	14040
cagtgaagaa	agcaaaaagt	gggaagcaag	aggaattatg	cttttcatca	gccaaaattg	14100
caggtaggag	gattggctca	gtcatcttgg	ctgaggctca	tgaaccagg	tgtaaagaaa	14160
gtggactaga	ttaatttcat	ccattacagg	aagaggagcc	gtgaaagata	atccagaaat	14220
cattgggatt	tgatggtaga	aggtattttg	ggactattcc	atttgaaatg	agaaggtagc	14280
tgacattctt	tgaattcctt	tcaagcaaa	gattaaattt	acccatgagt	tgactcagaa	14340
aaaacataaa	aagtattggt	gctctgctca	gagttttatc	taactcattc	tacttcttta	14400
ttccatgatg	aatgacata	aatgaggttt	tttattgttg	ttgttgttgt	tttctggaca	14460
caaggcaagg	tagctacctg	ggcagagctg	ttttatttct	ctatgccgtg	gagagaaatt	14520
ggttaattgg	ccatggaagg	cagtcattaa	gatgttccca	tgcgagtgaa	ctttccaggg	14580
ttcccagctt	ctgcatcctt	ccctgtccct	caattccatt	gttggtgatg	acaatgtctc	14640
tcccatcagc	ctcatgaagt	tctctctcat	ttattaaaaat	ttgctttcag	gaaaaatttt	14700
gaaaatgtgt	ccagtaatgc	ctgattggcc	ccttatccta	aaggcttaaa	ctggaggaag	14760
gaagctaaac	tgagaaatct	tgcaaatcat	tgagccaaaa	acgtattaat	agcaagatct	14820
atcatttatt	gactagtatg	tggcaggcag	tgccttttta	tttaggcagg	gagagttgat	14880
ggggggggcg	gggttcacac	atcttaaaga	ggtgctatct	cctcctatat	aaatcatgta	14940
agtcaagaga	gtaaggaatt	gtctttgttt	ggttatattc	aggggattag	agtatacagt	15000
agaagatccc	aagaaacctt	gggatcattt	tagactaaga	aatgccaata	ccgccgggcg	15060
cgggtggctca	cgctgtaat	cccagcactt	tgagaggccg	aggtgggagg	atcacaaggt	15120
caggagattg	agaccgtcct	ggctaacgtg	gtgaaacctt	gtctctacta	aaaatacaaa	15180

aaattagccg	ggcgtggtgg	cgggcgccctg	tagtcccagc	tactcgggag	gcggaggcag	15240
gagaatggtg	tgaactcagc	aggcggagct	tgagtcagc	cgagattgcc	ccaatgcact	15300
ccagcctggg	cgacagaacg	agactccgtc	tcagaacaaa	acaaaaggaa	atgccaatac	15360
cagcagaaat	agagccaaat	catgaacata	agctaaacaa	atgttggcag	tgtagcctag	15420
tggttaagag	agcagactct	taactagaac	actgcactcc	atgtcctcac	tgtagaccct	15480
caactgtggg	ttctaattaa	ccccgtttac	ttaccagtgg	cagtcttaag	gcattcctta	15540
agttcgttgt	gcccccaattt	gttcactctgt	agaaggggta	ggatgacagt	agtgtttact	15600
ttataggcctt	actgtgagca	ttaaatgagt	tactactgta	tttgtaaagt	gcttaaaatg	15660
ctgtcccaaa	agagtttggt	aaacacttaa	gaactgattt	acttgcatct	aaactgacag	15720
ctctcaataa	ctggaaatga	tcaagcatag	gccctggaat	ataagcaggt	ctacatgaag	15780
gcaaaaatgt	tcgtttcttt	tgttcagccc	tgtgcctaga	tcaatatcta	gtgatcatgc	15840
tcaagaaata	ttgttgaaatg	aatcaatgaa	cctaccgagg	tagttacata	aaagagttct	15900
gcatgagtac	aaatctgggc	aaagtgcact	ccaaggaaat	ttccactttt	agattctgtg	15960
atttccttaa	ggaactgata	aattggtgtg	atacaatgta	aaaaaatgtg	cctatatgat	16020
ttgagaaaaa	cttattttct	ctccctcttt	tttcttctct	tccttctctc	ctcccttctc	16080
tccttctctc	ctcccttctc	tccttctctc	ctcccttctc	tccttctctc	tccttctctc	16140
ttcttctctc	tccttctctc	ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	16200
tccttctctc	tccttctctc	tccttctctc	tccttctctc	tccttctctc	tccttctctc	16260
cttcttctct	cttcttctct	cttcttctct	cttcttctct	cttcttctct	cttcttctct	16320
ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	16380
ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	16440
ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	16500
ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	16560
ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	16620
ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	16680
ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	16740
ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	16800
ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	16860
ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	16920
ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	16980
ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	17040
ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	17100
ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	17160
ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	17220
ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	17280
ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	17340
ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	17400
ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	17460
ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	17520
ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	17580
ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	17640
ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	17700
ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	17760
ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	17820
ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	17880
ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	17940
ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	18000
ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	18060
ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	18120
ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	18180
ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	18240
ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	18300
ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	18360
ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	18420
ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	18480
ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	18540
ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	ttcttctctc	18600

gaggagggct	tgtctgggaa	gacttgtctc	tgccctatgt	ggtatcagca	gggggaggct	18660
tgacggactg	gcacatgccc	ttccagaatg	gcccactcgc	atgcctgcca	agttggtgct	18720
ggctcttggc	tgggagctca	gctggggctg	agtgcctagg	tccctgggag	gttccttgtg	18780
gcctgaactt	cctcaccaca	aggcggctgc	ggtgcgagag	tgagcatttc	aagatagagc	18840
caagatgaca	ctgtattact	gtgtaagacc	cagcctggga	attaatgtag	cctcacttcc	18900
atcccactct	atttttaaaa	agtgaattat	taaggtcacc	ccatattcaa	ggggatagga	18960
attagacttc	atctgtatta	agaaaaatgt	ttttaaaaat	tgtagacatg	ttttaaaatt	19020
ctaaagtcca	cttactggct	gcagattatt	tatatataca	tgcaagatac	actcctacat	19080
tctcttctta	gaaggctcag	ttgcaggtac	agatgaagct	cttcaagtga	gatttcttat	19140
gtatttatcc	tctcaatctg	aagacttgta	aactaagaga	caagttattt	gcaacctaca	19200
tacgcaatat	tcaatggtaa	agtatacata	ggacagccac	tacagacact	cttggttttaa	19260
atagaggaaa	atgagagcac	ataacagtca	ttggctcata	gcaactctga	tatccagaca	19320
gcaaacacaa	gcaggtcttt	tttttaggtct	cagtcctact	gcctggattc	cctactgctc	19380
ttgggtcttc	cctccagggt	cttggttctt	ggacctcttt	tcattttaata	ctatttctgt	19440
tcctttaagt	tcaagctggc	aaaatatgat	tgtacaattc	tgtttaaaat	tccaggactt	19500
cctgtgattc	ttattgggga	atactccatt	agacaagaat	ctctttgaca	taagccattc	19560
tctacctgag	atccctgtaa	ggctgtgatg	ggaccacata	accttaaaat	tattagaaga	19620
ctcattgttt	actgagagaa	tatgcctagc	atatgcttag	atccttagag	gaactctgtt	19680
tcaaagggct	tatgagacat	taccttatat	ctttctaagg	tacaaacaaa	aggctcttgg	19740
cttttgagtt	tgatctttga	gctgacacct	tttcttaatt	tgagaatccc	ctgctctatg	19800
gagagactga	caaagagaaa	tagttttata	tttgaatgta	acatcttgga	tctttaatag	19860
attatcttaa	aattttcctg	aaaatgtaac	agttcctttt	tttaaaattc	attctcccta	19920
cacacttatt	atatatgact	aaaagaaact	ccctggcatt	ttcaacattc	tggttagaat	19980
ttttcttagc	ccaatctac					19999

<210> 2

<211> 3893

<212> DNA

<213> Homo sapiens

<400> 2

atcagaggaa	ggaaataaag	gagggtgaga	gtaaattctc	tttttagcatt	cagattccac	60
agattccaca	aatcacattt	ctttttttac	caactaagga	aaaataacac	ttgacctaac	120
atttcattgc	agttagctaa	aggatgctag	aaaaactatg	ttgcagtggg	ttgctctaata	180
ttcttcagga	atagagaaaa	gtgacaaaaa	gatcagagaa	gagaagaaaag	gaaactatca	240
gaaaaataca	gaattggagt	aggatataac	atatttgggt	tgaaggtaaa	attttatatt	300
gtaatcttaa	gtatcttgct	acttcagttt	ggtccctgga	acagcagcat	cagaatctgc	360
cgagggcttg	ttaaaaaggg	agaatctcag	gtcccatccc	agactcactg	aatcagaata	420
taaatactga	caagatgccc	cgggattcat	atgcacagta	gagctggcga	agttccattg	480
tagcctgtga	ttgttttctg	caacttagta	tttctgagtt	ttcccaagga	agaaaaccca	540
ggccttagct	tctggcagac	ttgtgtttct	cctttactta	ctagctgcat	gactcatgag	600
caaggaaatc	aaactttatg	tgctgagttt	tcctcatcta	taaaatggag	actataataa	660
tcattctcta	ggcttggttt	gaggatgttc	aacaaatgct	cctttcattc	ctctattttac	720
agacctgccg	cagacaattc	tgctagcagc	ctttgtgcta	ttatctgttt	tctaaactta	780
gtaattgagt	gtgatctgga	gactaactct	gaaataaata	agctgattat	ttattttattt	840
tctcaaaaca	acagaatacg	atttagcaaa	ttacttctta	agatattatt	ttacatttct	900
atattctcct	accctgagtt	gatgtgtgag	caatatgtca	ctttcataaa	gccagggtata	960
cattatggac	aggtaagtaa	aaaacatatt	atttattcta	cgttttttgtc	caaaaatttt	1020
aaatttcaac	tgttgcgcgt	gtgttggtaa	tgtaaaacaa	actcagtaca	gtagtattca	1080
gtacagtatt	taagcccctg	tacttaaaaca	tattcctcgt	accaatgaag	ttacatgaaa	1140
agcaaatttg	tgtgagatat	cgtagatgga	agtaaattag	tctttatggt	ccccacaaat	1200
tgaaatgcat	ttcaaaaact	ctgtgtgtgt	atgtgtgtgt	gtgacagagt	gtgtgtgaga	1260
gagagacaga	gagatacgct	ttggttgcc	ccataagctg	gctgctatga	ttaataagac	1320
caagttttct	aaagaaaatg	agatcataac	aaaagccctc	tttatgacta	tcttttatca	1380
ggggcaaaaa	ggaaagagac	aaaacagcat	gaaatgatga	gaccaagtga	tgaaaattca	1440
ttcacaatga	ttgctttcaa	gagtaatttc	tcttgggtaa	ttcagcagcc	tgttactatg	1500
gctctctgga	gtgatagcta	atgtaaatga	agcctctaaa	agtggtattat	cctgacaaga	1560

```

atatactcag ccaataatgc aacagaaatc cattcaaagc attcgggaaa aattcaaaag 1620
aataaatatt cttttttttt ttttaaagtt aatgacctac gatccatttc ttcctgact 1680
aacaagcagc aagcacttaa aaatatccag ccaggatgaa atagaaaccc acctgacttg 1740
ttaatatatt tgtttggtcc cagggactca gattctaagc caaattcttt gaatgatctt 1800
ggcaaagtgc tcgaattatt tttgccaact tttctttatc ttggaaaaaa agtttcatga 1860
atgggtgtca aaattgatta gttttaaaaa ctttcttgct agatacgtat ggcaccctaa 1920
aactgtatta gaaaaaaatt tcatatctcc aggcctttca ttgggtcagg ttggcatttc 1980
gctgcccttt atgtgtgtga caagtgaana taaggaaaga aaaaaactca agtgaagaaa 2040
atcagaatct gcgcagcagt tcttgggcgt ttcagctgct tcccacatca cctgcctcat 2100
caagccccag catccatctc cttgctcctc ttacacctg tgtgcatgac aggccacca 2160
ttcattttatc agagcaaagg ctctcccact attctgggtc acccccctac ttagccagat 2220
atacaagaat atctgcacgg atgacctgcc tcacctggga gctcagagga gctcagattc 2280
cattactatc gcaccaagga cagatctccc agcaagaatg acagaaaaga ctaactgccc 2340
ccaaaatctc ctttccaaaa cacagttctc ttaattctcc caagaaacca gaatgtgact 2400
gctcacctct ctaaggacct gaaaacaact ggccatttca gctattttaa tcaactttaa 2460
aaaatccaac cgccaaaata ttaaaccatt ttggttgga tgataacata actaacctgc 2520
tgacagctgc ttctgctagg tgcaaaaatg gaaaaaaaaa tacttctaag caggtcaaat 2580
cactctacct ttgggattct aaatttactc atattctcaa agaaatatat tcagtcatag 2640
tggggaaaaat aggattattc ctttagctcg ataagcaacc agaagttctt ctttcaaatc 2700
ttgacattta atcaatcaga aattgatttt tggaaaactg tttcctatga agctatctct 2760
gcctgaagga tttttctttt acaatccaga ctatagaagg aaattcacia cctggacttt 2820
cacctccatt ggtcagagtt ttactgacca attcccact ctgccttaca cctaacggaa 2880
gtttatgcct gttttctctt cacatacccc aacagttaca aatgggtgtt attattaagc 2940
atcttttatt ttgtggcctc tgattacatg gtcccctaaa ttttgacctc atcacaaaag 3000
attggtaaaa tttcttaaca tattaataat attttgttta tgtgtcaata tcttagcatg 3060
tatcaattaa gacagaggtc ttaacgttct ctttttgaaa gagaatatta ggattcagag 3120
atattaagag atttctccag gatcacagtt aggtaacaga gctggatttt agtccagggtc 3180
tgtctacagc tctaacgtat atacaccctt tgtataacat gtcacgaatt cagcataaag 3240
ggatcttcag tgatctaagt caggggtcag caaccttttc taaaaaggac caaatagtaa 3300
tatttcaggc tttgtggacc ctatggtctc tatcataact gttcaaatca ccatgtagtg 3360
taaaaggagc cataagcaaa atataaacta acgaatgtgg ctgttttatg ggattttttt 3420
ttaactcttt atttacaaaa gcaggtggca gatcagaact cacttatggg ccatagttct 3480
ctgacccctg acctgagaaa atcttatatt tatggacaac atttagactg tgacttgcca 3540
agtaagaaca agaagctctg tcaactgaag gtcaaggctg gagttctgaa agcaaagagc 3600
tgtctggtgt taatgataag tgaaatagtt aaagttagaa gatcccagtt ataagaagca 3660
caaagaataa tgaccataga ctctgaaca agaatgtctg gacttctggc ttaggcactc 3720
ttgttgtatg gtccaggcca agttacctaa tctctccagg cctccatttt cttatcatta 3780
aatgaagata ataaaagtat tttcctcaga gagctgtaag aataaactga gctaaccat 3840
gtcaagcaca tagaataggg cccagcctat attaatattt caataaatgc cag 3893

```

```

<210> 3
<211> 121
<212> PRT
<213> peptide

```

```

<220>
<221> PEPTIDE
<222> (0) ... (0)

```

```

<400> 3
Met Phe Asn Lys Cys Ser Phe His Ser Ser Ile Tyr Arg Pro Ala Ala
1          5          10          15
Asp Asn Ser Ala Ser Ser Leu Cys Ala Ile Ile Cys Phe Leu Asn Leu
20          25          30
Val Ile Glu Cys Asp Leu Glu Thr Asn Ser Glu Ile Asn Lys Leu Ile
35          40          45
Ile Tyr Leu Phe Ser Gln Asn Asn Arg Ile Arg Phe Ser Lys Leu Leu

```


50		55		60
Leu Lys Ile Leu Phe Tyr Ile Ser Ile Phe Ser Tyr Pro Glu Leu Met				
65		70		75
Cys Glu Gln Tyr Val Thr Phe Ile Lys Pro Gly Ile His Tyr Gly Gln				80
	85		90	
Val Ser Lys Lys His Ile Ile Tyr Ser Thr Phe Leu Ser Lys Asn Phe				95
	100		105	
Lys Phe Gln Leu Leu Arg Val Cys Trp				110
	115		120	

<210> 4
 <211> 6209
 <212> DNA
 <213> Homo sapiens

<400> 4

```

ggatgtgagt gggccttcag acttaaacca ggagttacac ctttggcttc cctggttctc 60
agttcttttg acttggactg aattacactg ccagggttcc tggttctcca gcttgcagat 120
ggcagatcat gggacttctt ggcctccata attgtgtgag tcaatttcca ttttatttac 180
atatccagtt atgcattgct taacaatgga gacaggttct gagaaatgca ttgttaagtg 240
atttcatcat tgtgcaaaca tcatagagt taactacaca aacctggaca gcatagacta 300
ctacacatct aggctacatg gtgtagcttg taacctcatg ataagtatg ataacatcat 360
gataagtatg tatgtatcta ccatatctaa atgtagaaaa ggtacagtaa aaatatggta 420
taatcttatg ggatcaccat catatatgca atcctttgta gactgaaatg tcattgtgta 480
gtgcatgact gtatacgcac acatacacia acacacacia atatactatt gggtcttttt 540
ctctgaagag ccctaataca atatgttata cttttatatt gactctattt caaaatttat 600
ggtttttggtg aaacatatgt ggagatgggg cataggtgtg tgaactggga tagtgtcctg 660
ctgatgaatg ggtgggaggg atcatttggg acaagcccag ggcacagct tatagatatc 720
aagagctcaa caagagcact ttatggcaaa acctcccaca agacctctca gaagttgaga 780
aactgctaaa agtttcttta tgacagatga cttttatgga taaaataggg attagcagga 840
ttctttaaat actttcgaac actaaccttc atttctacca ggcagtgggg ccccaagtgc 900
agggccatag gaagtacaag tctgggagat actaggctgc actgtctgta gagaatctga 960
aaaaataata gagtcaactga aatgcagttt ggtataatta ttgccatgca tcataattct 1020
aaatcatact agtgggtcaa tactcttccc tgaaaaaaca ttttcttggt ttgaattcta 1080
aataattggt gtggtcacca ctgagctttt aaatatataa atactttcaa gtttgcatat 1140
ttttattacc tgttccttaa caaacattga attcaacatg aaaatgatta tgggaaacat 1200
tcgggtatac agtccctgac tcttaaggac tcaggtaaat acttagggta tttcatggcc 1260
ctagtctttg gggtagcaca tgtttcttct tcaaatcaca gattcaaat caagaatgat 1320
aacacagtga ttgtgtagac aaaataagtg aaccaaatt gcttgcttct gtcattctat 1380
ggaaccactg agagttttta cttgtgctta aaattttgaa tagtaaaaca gagtgtcaac 1440
ttcatgctgg aatatttttg gctttttaga cacaatttta agtacatgaa gtatttttac 1500
aagactaagt aacatcactg aaattacagc tttcttcttt ttaaaactgg tatttggtat 1560
aaaactaaag agcgaatcaa gaaaagcata attattactg attattacag gattattact 1620
gaaaaagaaa tgtacggaat agaggaggaa ggagttaaca aatgatccac tctgggtgtt 1680
gaaaacacca ataagcctgc ttccaggaag tgcctaagac agagctggct cagcttgctg 1740
ggtcacagca tgaaggaaa ctgctgggct acatgccacc atcctcagtt gtccagatag 1800
ataatcccat agccccatgg ggaaataatc ttttaattatg atatagctga caccattcaa 1860
agcactatgc taagtccttt atgtgaatta acttttgtca aatttatttt tcataaataa 1920
cccaaatatg tataccacta ttatcctacc ttaaagagga gaaactgagc tcctaaagtt 1980
taaatatcta acccaagtta agactgctag tcaccctagg ctattaactc aggagctcta 2040
actcaggtat aataacatta tgctactgtt tgcagctttg actatgcctg aattataacg 2100
tcatgctatc taactaaaaa gctaagggaa ataaaatgag ccatagggct caatttcata 2160
aaaggagaga aaatactggg gaaaagtgat aatgcagagt ttaaaatatt tttgtaaaag 2220
tgccagagat tgagtataac aagtgtgacc aaaaaaaaaa aaaaaaaaaa aaaaggaaga 2280
aggtaaaaaa aagagggagg tctgagaaat agaaatatca gaggaaggaa ataaaggagg 2340
gtgagagtaa attctctttt agcattcaga ttccacagat tccacaaatc acatttcttt 2400

```

ttttaccaac	taaggaaaaa	taacacttga	cctaacattt	cattgcagtt	agctaaagga	2460
tgctagaaaa	actatgttgc	agtggtttgc	tctaatttct	tcaggaatag	agaaaagtga	2520
caaaaagatc	agagaagaga	agaaaggaaa	ctatcagaaa	aatacagaat	tggagtagga	2580
tataacatat	ttgggttgaa	ggtaaaattt	tatattgtaa	tcttaagtat	cttgctactt	2640
cagtttggtc	cctggaacag	cagcatcaga	atctgccgag	ggcttgttaa	aaaggcagaa	2700
tctcaggtcc	catcccagac	tactgaatc	agaatataaa	tactgacaag	atgccccggg	2760
attcatatgc	acagtagagc	tggcgaagtt	ccattgtagc	ctgtgattgt	tttctgcaac	2820
ttagtatttc	tgagttttcc	caaggaagaa	aaccaggcc	ttagcttctg	gcagacttgt	2880
gtttctcctt	tacttactag	ctgcatgact	catgagcaag	gaaatcaaac	tttatgtgcc	2940
tgagtttctt	catctataaa	atggagacta	taataatcat	ctcctaggct	tgttttgagg	3000
atgttcaaca	aatgctcctt	tcattcctct	atttacagac	ctgccgcaga	caattctgct	3060
agcagccttt	gtgctattat	ctgttttcta	aacttagtaa	ttgagtgtga	tctgggagact	3120
aactctgaaa	taaataagct	gattatttat	ttattttctc	aaaacaacag	aatacgattt	3180
agcaaattac	ttcttaagat	attatttttac	atttctatat	tctcctaccc	tgagttgatg	3240
tgtgagcaat	atgtcacttt	cataaagcca	ggtatacatt	atggacaggt	aagtaaaaaa	3300
catattattt	attctacggt	tttgtccaaa	aatttttaaa	ttcaactggt	gcgcgtgtgt	3360
tggtaatgta	aaacaaactc	agtacagtag	tattcagtag	agtatttaag	cccctgtact	3420
taaacatatt	cctcgtacca	atgaagttac	atgaaaagca	aatttgtgtg	agatatcgta	3480
gatggaagta	aattagtctt	tatgttcccc	acaaattgaa	atgcatttca	aaaactctgt	3540
gtgtgtatgt	gtgtgtgtga	cagagtgtgt	gtgagagaga	gacagagaga	tacgctttgg	3600
ttgcctccat	aagctggctg	ctatgattaa	taagaccaag	ttttctaaag	aaaatgagat	3660
cataacaaaa	gccctcttta	tgactatctt	ttatcagggg	caaaaaggaa	agagacaaaa	3720
cagcatgaaa	tgatgagacc	aagtgatgaa	aattcattca	caatgattgc	tttcaagagt	3780
aattttctct	gggtaattca	gcagcctggt	actatggctc	tctggagtga	tagctaattgt	3840
aaatgaagcc	tctaaaagtg	gattatcctg	acaagaatat	actcagccaa	taatgcaaca	3900
gaaatccatt	caaagcattc	gggaaaaatt	caaaagaata	aatattcttt	tttttttttt	3960
aaagttaatg	acctacgata	catttcttcc	ctgactaaca	agcagcaagc	acttaaaaaat	4020
atccagccag	gatgaaatag	aaaccacact	gacttggtta	tatttttgtt	tggtcccagg	4080
gactcagatt	ctaagccaaa	ttctttgaat	gatcttggca	aatgtctcga	attatttttg	4140
ccaacttttc	tttatcttgg	aaaaaaagtt	tcatgaatgg	gtgtcaaaat	tgattagttt	4200
taaaaacctt	tcttgcagat	acgtatggca	ccctaaaact	gtattagaaa	aaaatttcat	4260
atctccaggg	ctttcattgg	gtcaggttgg	catttcgctg	ccctttatgt	gtgtgacaag	4320
tgaaaataag	gaaagaaaaa	aactcaagtg	aagaaaatca	gaatctgcgc	agcagttcct	4380
gggcgtttca	gctgcttccc	acatcacctg	cctcatcaag	ccccagcacc	catctccttg	4440
ctcatcttac	accctgtgtg	catgacaggc	ccaccattca	tttatcagag	caaaggctct	4500
cccactattc	tggttcaccc	ccctacttag	ccagatatac	aagaatatct	gcacggatga	4560
cctgctcacc	ctgggagctc	agaggagctc	agattccatt	actatcgcac	caaggacaga	4620
tctcccagca	agaatgacag	aaaagactaa	ctgcccccaa	aatctccctt	ccaaaacaca	4680
gttctcttaa	ttctcccaag	aaaccagaat	gtgactgctc	acctctctaa	ggacctgaaa	4740
acaactggcc	atttcagcta	tttaaatcaa	ctttaaaaaa	tccaaccgcc	aaaatatttaa	4800
accatttttg	ttggaatgat	aacataacta	acctgctgac	agctgcttct	gctaggtgca	4860
aaaatggaaa	aaaaaatact	tctaatacag	tcaaatcact	ctaccttttg	gattctaaat	4920
ttactcatat	tctcaaagaa	atatattcag	tcatagtggg	gaaaatagga	ttattccttt	4980
agctcgataa	gcaaccagaa	gttcttccct	caaactctga	cattttaatca	atcagaaatt	5040
gattttttgga	aaactgtttc	ctatgaagct	atctctgcct	gaaggatttt	tctttttacaa	5100
tccagactat	agaaggaaat	tcacaacctg	gactttcacc	tccattgggtc	agagtttttac	5160
tgaccaattc	ccacctctgc	cttacacctc	acggaagttt	atgcctgttt	tctcttcaca	5220
tacccaacaa	gttacaaatg	gttggtatta	ttaagcatct	tttattttgt	ggcctctgat	5280
tacatggtcc	cctaaatttt	gacctaatca	caaaagattg	gtaaaatttc	ttaacatatt	5340
aataatatatt	tgtttatgtg	tcaatatctt	agcatgtatc	aattaagaca	gaggtcttaa	5400
cgttctcttt	ttgaaagaga	atattaggat	tcagagatat	taagagattc	tcccaggatc	5460
acagtttaggt	aacagagctg	gatttttagtc	caggtctgtc	tacagctcta	acgtatatac	5520
accctttgta	taacatgtca	cgaattcagc	ataaagggat	cttcagtgtg	ctaagtcagg	5580
ggtcagcaac	cttttctaaa	aaggacccaa	tagtaatat	tcaggctttg	tggaccctat	5640
ggctctctatc	ataactgttc	aaatcaccat	gtagtgtaaa	aggagccata	agcaaaaatat	5700
aaactaacga	atgtggctgt	tttatgggat	ttttttttta	ctcttttatt	acaaaagcag	5760
gtggcagatc	agaactcact	tatggggccat	agttctctga	ccctgacct	gagaaaatct	5820

tatattttatg	gacaacattt	agactgtgac	ttgccaagta	agaacaagaa	gctctgtcaa	5880
ctgaagggtca	aggctggagt	tctgaaagca	aagagctgtc	tgggtgttaat	gataagtgaa	5940
atagttaaag	ttagaagatc	ccagttataa	gaagcacaaa	gaataatgac	catagactcc	6000
tgaacaagaa	tgtctggact	tctggcttag	gcactcttgt	tgtatgggcc	aggccaagtt	6060
acctaattctc	tccaggcctc	cattttctta	tcattaaatg	aagataataa	aagtattttc	6120
ctcagagagc	tgtaagaata	aactgagcta	acccatgtca	agcacataga	atagggccca	6180
gcctatatta	atttatcaat	aaatgccag				6209

<210> 5

<211> 89650

<212> DNA

<213> Homo sapiens

<220>

<221> gene

<222> (0)...(0)

<223> human genome sequence

<400> 5

cacacgtagg	ctacgagtgg	ccctcagcct	gcctcatcat	ggacctgtgt	tataataaat	60
atgtttaatt	gtgctgtttt	cttatagagg	aaagtccctga	tgtagttgc	cttgaagtca	120
gacacccaga	gagaatcaca	ggttttcaga	ttaattcatc	gcttgattct	tatccctgaa	180
gtcatatctc	tggatctctg	gttctcacat	tataaatttc	aatgattctt	tttctatatg	240
gccatgtcat	tcatatcctg	tgtaatatgg	ggaaactgag	gtatgaatga	catcattcaa	300
aaagcacctg	caatttttct	ttgccaagca	cttacagctt	tttctcatgt	tgctttcaaa	360
aagtcattga	aatattgttc	acataatttg	cagatgagga	aatgaatatt	caaatgcatt	420
aggatcttg	tccaagttct	tacagccaga	aagtagagaa	atgaatttga	attacaaatc	480
ttctacctct	tggcttatgc	tcttttcatg	acactgggaa	taaatgtctg	aacaagcatg	540
acttcatggt	tcaactatct	atcaaatact	tgttttctac	taagatcttg	cactcactca	600
gtgggatccc	ctgaagcctg	ctgattatct	gtcctttggc	atttatcact	ctctgtggga	660
ccttactctc	ctatggtaaa	gtttttattg	tattaaaagt	attatttgac	aataaatgta	720
gaaatcctac	agatcatact	caacaacatg	tctaattgtc	gcacacaatg	tctaacaatc	780
atztatgaat	actttatgtc	aaacataagc	aataacctaa	ttaaggaagg	tatttttaat	840
aaattgacac	tttttgacat	aaccatattt	caagtggctc	cattgttttg	tttattttatt	900
tattttattta	tttattttatt	tatttttgag	aaagggtctc	actctgttgc	ccagactgga	960
gtgcagtggc	aacatcatag	ctcactacag	cctcgacctc	tctgggctca	agcaatcctc	1020
ccatctcagc	ttcccaagta	gctgggacta	caggtgtgta	ccatcatgcc	aggctaattt	1080
ttcgtatttt	ctagagacgg	ggttttgcct	ggctgctcgg	gttgggtctc	aactcctggg	1140
tgttccggcc	accttggcct	cccaaagtg	tggtgattata	ggcatgagcc	tcaagtggct	1200
acttttttagg	gttgaaattt	atattgactg	tcaactagct	tccctagtta	gtatttgagg	1260
tctgctaact	aatttatatt	accatccaac	ttgtcaacat	ttgttgaaat	ataactgtcc	1320
tcactttttt	tgtgtgaaca	ttgaatacac	tttcagacta	aatttggttt	attacttaat	1380
gtcttattct	ttattagagt	taataatatt	tcttaatact	ttgccttcca	caaatagaata	1440
acttgtttgt	gatggctacc	tctttttttc	tcttagcctg	tcacaggtat	tatggataaa	1500
aatttagcacg	gctgggcaaa	aacaatgaaa	gaaatacact	tgcttgggaa	agctggggag	1560
gggtaaatga	atataattca	aaataccata	tatttattca	acactgttgg	aatatatgtc	1620
ctgttggaag	tgtaaaagtg	acatatgttc	tcttctctgg	tctcagactt	ttaggatcta	1680
gttgaggggaa	ctggacttat	acacaaaata	caattcaaca	acattatgag	ctagaaaatc	1740
catgagctaa	agtctttggc	aaagacatta	ggtaacatga	ggagtcagga	aaaggagaaa	1800
ttactgtggg	ctggaatggg	ctgggaacat	gagatggagg	aagtggcttg	ttactggaga	1860
aaggatgagg	ttcaaagaga	tgggaaaaaa	agaaagagag	aagaaagaaa	agaaatgagg	1920
aaaaacaagt	tgccagaaaag	aacaaggaag	aatagaggca	ggtaagcagt	ggattttgcc	1980
ctaggggaagg	taatataact	agagacggca	gttttctaaca	ggccatgatg	aataagatac	2040
acttttagccc	tcattggtac	gtgcagaaat	tcaaatttgg	aaattcaagc	ttacatgaca	2100
gtaaatatat	gttgggaaaa	aaataaccgg	taaacattta	catcagctct	ttttcctaaa	2160
gagaaaccta	ttccatgcta	tgaaatatct	gtcacaaattc	tgttttcaaa	atacttgctc	2220
tactttttcca	agccacaaga	ggaaacattt	tctctgccaa	cactctctga	ccttaaccag	2280

tttctccact	acgtctactc	ttaagctctc	tttagagctg	tgtgtatctc	gtctttatgt	2340
aaacctccta	gatgatatac	ttatggaaat	attcaggcaa	ctttttcatg	aactttacca	2400
ggaaagacat	ttctagcagg	agagcatgaa	tagaaatgga	ctcttcccca	gtctctgctg	2460
ggttctgact	gtggtcactc	taactataaa	aagtgtgtaa	aaatcatgag	cagattatgt	2520
catttccttg	gggtccctaa	aaatttcaag	gtatctgtat	tagcacagga	agatttaaat	2580
tgattttctca	acacattcag	atatcttatg	aactttatta	agataaattt	cctccagcat	2640
tcagaaactc	atatattaca	gaataaaaaa	taaagcagaa	aattagtgtg	cctggctaaa	2700
aatgagagca	gggttctatt	tcatttttga	aagtcactaa	gacagtaata	ataccattaa	2760
tgataaaatg	ttaacattag	ttaattatta	gatgtgtttt	tgtatgccag	ccacataata	2820
tatacttttta	tatgtatcac	ctacatttct	agatgtaaat	gtgaggggaat	tatagtagta	2880
tctacctcgt	atgattgctg	gatgatttaa	atgagctggt	gtctcaaaaa	cttgggtatag	2940
aaagcagaaa	cttttagtta	ttaagattct	tactattcca	atatttgaat	aaaacagtga	3000
cctgctaaga	aaccccaata	atattctgat	acatcaaaac	cttctggcat	tagatgtttc	3060
taatctaaca	tcttcatatt	aattttttta	tgttttgatt	atctacattc	agtagtgaat	3120
gtgtttctaa	acgctggatg	cattttttaac	taaatgtggt	ttgtaccaca	ttttgacaac	3180
ttttgtttta	actatgattc	agcttataac	aaaacaaaac	aatgcatcct	ctctccactg	3240
ttaataaggt	taatgaaaag	ttgacttatg	aaaaaaatcc	taatttatgc	acattctcat	3300
tgttttcctt	gctaaggata	ttagtacttg	acgattctgt	aacaaagaat	tatcatggga	3360
tgaacttttg	tgcacaaat	cttatcaata	caattgtgct	gattttacct	agatgagatt	3420
tttcttttct	tctttctttt	ttgagacagg	gttttgctgt	gttaccagg	ctagcctcaa	3480
accctggcc	cctggcctca	agtgatcctc	tcacctctgc	ctcccaaagt	gctgggtatt	3540
acagatgtga	gtcactgaat	ccagcctcac	ttagttggct	ttcttagtga	attattttat	3600
ctggttctaa	aactttttga	taatactctc	aaatatttat	ggattttata	acataattta	3660
tggattacgt	agttatgaat	ttcataaatg	attttgtgat	attgccacag	atcatcacca	3720
ttatacagga	tgtataacat	aaccatgggt	taatataatt	tcataaacta	tagaccaaac	3780
aaagactggg	caggaccagg	gcacgcacgc	attttataatg	tgtgggtgct	attggaatat	3840
gccaggcctc	ctgtgaaaaa	aatcagtaag	tgcttatctc	ataggaccaa	cggcccaaca	3900
ttcctgaagt	cactaccaca	ctttgcactt	atctccatgt	ggaaatagat	agccactggt	3960
gaattctggg	gagaacgaca	cgtctgaaat	ctctcagctt	cacaaccctt	attacagccc	4020
tcagagaatc	ttctcacata	gcgcacaaaca	acaacttttag	gaagtgatgt	tcctagaatg	4080
aatcaatttc	taaaattaaa	agtgaaaaca	atgacaagga	gaagggaggg	tcagagagga	4140
aaggetgatg	ttactaaaag	acaaaagaca	gtataacctc	ttatgaggat	ggtccagaca	4200
ctcagggaaa	tgcaggaaga	aataaaagat	aggagtttga	accacactgt	gatggctaac	4260
tttatgtgtg	gacccgaccg	atctatggga	caccagata	gcttgtaaag	cactatttct	4320
gggtgcgtca	gtgaggggtg	ttttggaaga	gatcaacact	tgagtcagta	gactgagtaa	4380
agcagatggg	cctcaccaat	gtgggtgcac	attgtttaat	ctgttgagtg	cctggataga	4440
caaaaaaggg	aaaagaaggg	tgaattccct	ttctcgtctt	aagctgggac	agccatcctt	4500
tcctaccctc	agacatgaga	ggtttggatt	cttggatctt	tgggtcccaag	ggctgacact	4560
gggtggccacc	tctggtttca	gggtctttggc	cccagattgt	aagttacacc	atcagcttcc	4620
ttggttcttg	ggccttgaga	ctcaagctaa	aatacactac	cagcttccct	tgttctctag	4680
tgtagggaca	gcaaatcatg	aaaccttctg	cctccataat	catataagtc	aattcccgtg	4740
ataaatctgt	gcttatatat	ctatagcttt	ccttttggtc	tgtttctcca	aagaacctta	4800
atgtacacac	tatatgacct	aacctgtagt	aatgataacc	ttatgcaggt	ttgaataaga	4860
tgatgggtatt	ctcagtatct	gggaggtatg	ggctagagtg	atgaaccacc	gccatgagcc	4920
taggactgag	gagatttctg	aaatgtggaa	tatttgggtg	caaaaccaag	agataatata	4980
gccatgtgga	aaacatgtag	aactatcgta	tgattcagca	acccaaccac	tgggaattta	5040
cccaaaggaa	aggaaaccag	tatattaaag	agaatctgca	ctcccatggg	tattgcagca	5100
ttattctcaa	tagcctagat	atggactcaa	cctaggagat	tagatgaatg	gacaaagaaa	5160
atgtggcata	tgtacaccat	gaaataactta	ccagctataa	aaaagaatta	gccaaagcag	5220
tgggtgtgtg	ctgtcatccc	agctccttgg	gaggetgagg	tgggaagatc	tcgaggccag	5280
aagtttgaga	ccagcctggg	caaaataata	agactcggtc	tctaaaacaa	tttaaaaata	5340
ggccttcctt	aaaaaaagaa	taaaatcatg	tcattcacgg	caacatagat	gggactggag	5400
gatattactg	ttaagtgaag	ttagccagga	acagcaagtt	aaaccccaca	tattctgatt	5460
catatgcgga	agctaaaaaa	acgttgatct	catagaagta	aaaagtagaa	cagaggatgc	5520
tggagactag	aaaaggtagg	gagaaggaag	ggagagggaa	aaatttgtaa	acaggtacaa	5580
aaacaaaatt	acagttagtt	agggagaatt	aattccagca	tcctgtagca	ctataggatg	5640
actatagtta	ataataatac	tttaattagt	ctcaaatagc	tagaaggagg	atattgaatg	5700

ttcccaacac	acacaaaaaa	atgataatgt	atgagatgat	ggatatggta	gttatcctga	5760
tctgatcact	ctacattata	tgtatcaaca	catcactatg	tacccacaa	atatgtagaa	5820
tttttatttg	tccattttaa	aaagataaca	aattttaaaa	taaaataaaa	actaaattag	5880
tgttccatgt	aaacctggat	gaactggta	ccctacgtct	gcccattctag	atggctggtc	5940
aaagtttccc	aggctccaca	tcaagttggt	ccactgctca	ctggaacttc	cctagtcagg	6000
ttggggcaaat	agtaatttac	agcaatagtg	aatttatcac	tgacatttct	tcagttcccc	6060
tctttggcat	ctgcttcttc	ttttctgtaa	tgctgtttgt	tgaaatgccc	aacattcttt	6120
ttcttcccta	gagctattca	gggtgacctt	tcttttcgca	ttttcccatg	ccacttccat	6180
tatatcaaaa	taaaacagtc	ctgtgtggcc	actgctcatg	accttgtttc	ctgccatgtg	6240
aagataggat	cggctgctct	ttcttctcct	cctttttttt	cagagacagg	atctctccct	6300
gtcaccacaga	ctggagtgc	atggcacagt	cgtagcttgc	tgcagcctcg	aactcctgga	6360
cctcctcagc	ctcctgagta	gctgggacta	caggtgcaca	ccaccatgcc	ttcctaattct	6420
gatatatata	tatatatata	ttatatatat	aaaatatata	tataaatata	tatatattat	6480
atattatata	tataatatat	atattttata	tataaaatat	atatattata	tatatatatt	6540
atatataaaa	tatatatatt	atatatatat	atatatatta	tagagatggg	gtcttgctct	6600
gtcaccacagg	ctgaagatca	gctgctcttt	ctaactctgtg	gttagataag	atctgtctcc	6660
caggggataa	aatactacct	ggaataaagg	tatcttttaa	ataatcccag	agaagaaaac	6720
atttttatag	tatgacagag	gcagagaaaa	cagagaatat	ttgttaaggc	aggactttca	6780
ccactcccag	tacaatcac	tgtctgtttac	ctgcatacct	tacacgggct	ggcactgctg	6840
ggggtacaaa	gtagatgcc	aacttcacaa	tggttagatt	catgttttaa	aagccattgg	6900
atcaaacctt	tgtgaaagtt	tccagctttt	ttctgttcca	aatatgtgtc	cattataaaa	6960
gaatctcaag	agcataattg	ccaagatagt	ctatgtccat	gagtatttca	acatctctca	7020
tgaatctgt	tcccatcatt	actcaagata	ttgtatgaac	agtattccac	ataaactagg	7080
tgctcaataa	tgattgattg	gccaatggag	ggtcattatt	taatgcacta	caatctttta	7140
tgcaaggggc	ccacaggaat	cagtatgatc	ccataggaat	ccttttcttt	tccattgaaa	7200
aagaaacaga	tagtggcttg	tattaggttt	cttgtgtgtg	ttgtgagggtg	gaaagatatg	7260
aaaagaaatt	tgatcagagc	ataaatctga	gcccattggga	taggaaagaa	tgagggaata	7320
aggaagaaaa	cacagattat	agacaggaaa	atcaaaccta	ttaaaactga	taattttcga	7380
atactaaaaa	tgtacattca	tttgaacaaa	aagattctat	aaagcaagat	ttctctgttc	7440
ttaccagcac	taccatgccc	aaactacctt	aggaaatgaa	tagcagagtc	aaacttaaaa	7500
gcacctgaaa	ttttaaaca	aaaccaattt	acattttatt	taagaaaagc	aaacagatgg	7560
gctgctaac	aatgtcaaag	tctcgtttac	aaagaaaaaa	acaaatctgg	aacctgaagt	7620
caaacgagtt	caaaataaaa	agcaaacca	taaacagaaa	ccaacataaa	cagaagttac	7680
taccatctcc	ctcagcctgt	gaaattcttg	aacttctctt	tctttctcgc	cttcttcttc	7740
tctcacctgg	aagacgagca	gagtgaacac	atcaggggtt	gtcagttccc	cagatggcac	7800
cacattcata	aaccaccgac	tccaggagaa	tgtaggaagc	ttagttaagg	ccaaagtctt	7860
ctttggatct	tectcatggg	cttcaaggca	aaagaaaaaa	aagtttgctt	gagaatatct	7920
tcatattctat	tagtttgaac	catgcaaaat	tacagttttt	ataggtaaaa	tgagtgcata	7980
ttggcaattt	caaattgatta	accctaatac	attatgcttt	tgggtataga	aatattcaga	8040
tcttaaacat	atgctgttac	atacaaaatc	aggatatattc	ctgcttctat	aattaaagca	8100
aagagaattt	cttttggtca	ctactccttc	tgacatgagg	tatgaaccaa	gttcaggacc	8160
cctaaaggtc	tgggtctggg	tcatttctcc	acctctaact	tgtgccgctt	tcttggtcag	8220
tcattgtgtt	ctgagctgtc	tcataaaaca	tctgctatga	ctttactttc	tctgatagg	8280
gtggctttcc	atcgttggca	cttcgttggc	cttattggta	tgctttatac	actggttctc	8340
gtttccaaat	tggcattatt	attgttatga	ttcctgctgc	tctccacat	ttcccatctt	8400
tctcctgatc	tctctcacct	gtacatttct	tacattttct	cctgtgcttc	cttcttccca	8460
tcatcattgc	ccaagtgtgt	cttctttctt	ctccttgctc	catttccctt	gcccgcctct	8520
acatatgcag	agatggctct	tggttttcct	tctgaaatct	catagtttgg	aggtaaactt	8580
gttagcaagg	ccactgagaa	gagaacaaaa	gggaaacata	agagaaacca	agtcactatc	8640
tctctcattt	cctggtttct	agaagtaaga	cccaaagaac	tcactgtttc	agtgttttca	8700
gtcaggcca	aactagggtg	atcaaaactga	gcttctgagt	gctgatcaaa	acctataaaa	8760
ccaagtagac	agaccatcta	caaactctca	ctgttaaata	ccataaagaa	tgaaaaggtc	8820
actaatgggt	aagactatat	gtgtgataat	taaattttatg	catcaacctg	gctaggctaa	8880
aggatgacca	ggtagctggg	aaaacattat	tctgggtgtg	tcataaagag	tgttttcgga	8940
agagatcagc	atttgaattg	gtgaacttag	taaagcagac	ggctctcacc	aataagggca	9000
ggcatcatcc	aatctgtcga	aagcttgaat	aaaacaaaaa	gaggaaggga	aaatttgctt	9060
cttttcttct	tgatctagta	tatcatcttc	tctgcccctt	ggatgtgagt	gggccttcag	9120

acttaaacca	ggagttacac	ctttggcttc	cctggttctc	agttcttttg	acttggactg	9180
aattacactg	ccagggttcc	tggttctcca	gcttgccagat	ggcagatcat	gggacttctt	9240
ggcctccata	attgtgtgag	tcaatttcca	ttttattttac	atatccagtt	atgcattgct	9300
taacaatgga	gacaggttct	gagaaatgca	ttgttaagtg	atttcatcat	tgtgcaaac	9360
tcatagagtg	taactacaca	aacctggaca	gcatagacta	ctacacatct	aggctacatg	9420
gtgtagcttg	taacctcatg	ataagtatgt	ataacatcat	gataagtatg	tatgtatcta	9480
ccatatctaa	atgtagaaaa	ggtacagtaa	aaatatggta	taatcttatg	ggatcaccat	9540
catatatgca	atccttttga	gactgaaatg	tcattgtgta	gtgcatgact	gtatacgcac	9600
acatacacaa	acacacacaa	atatactatt	ggttcttttt	ctctgaagag	ccctaataca	9660
atatgttata	cattttatatt	gactctattt	caaaattttat	ggttttggtg	aaacatatgt	9720
ggagatgggg	cataggtgtg	tgaactggga	tagtgtcctg	ctgatgaatg	ggtgggaggc	9780
atcatttggg	acaagcccag	ggcatcagct	tatagatatc	aagagctcaa	caagagcact	9840
ttatggcaaa	acctcccaca	agacctctca	gaagttgaga	aactgctaaa	agtttcttta	9900
tgacagatga	cattttatgga	taaaataggg	attagcagga	ttcttttaaat	actttcgaac	9960
actaaccttc	attttctacca	ggcagtgagg	ccccaaagtgc	agggccatag	gaagtacaag	10020
tctggggagat	actaggctgc	actgtctgta	gagaatctga	aaaaataata	gagtcactga	10080
aatgcagttt	ggtataatta	ttgccatgca	tcataattct	aaatcatact	agtgggtcaaa	10140
tactcttccc	tgaaaaaaca	ttttcttggg	ttgaattcta	aataattggt	gtgggtcacca	10200
ctgagctttt	aaatatataa	atactttcaa	gtttgcata	ttttattacc	tgttccttaa	10260
caaacattga	attcaacatg	aaaatgatta	tgggaacat	tcgggtatac	agtccctgac	10320
tcttaaggac	tcaggtaaat	acttagggta	tttcatggcc	ctagtctttg	gggtaccaca	10380
tgtttcttct	tcaaatacaca	gattcaaaat	caagaatgat	aacacagtga	ttgtgtagac	10440
aaaataagt	aacccaaatt	gcttgcttct	gtcattctat	ggaaccactg	agagttttta	10500
cttgtgctta	aaattttgaa	tagtaaaaca	gagtgctaac	ttcatgctgg	aatatttttg	10560
gctttttaga	cacaatttta	agtacatgaa	gtattttttac	aagactaagt	aacatcactg	10620
aaattacagc	tttcttcttt	ttaaaactgg	tatttggtat	aaaactaaag	agcgaatcaa	10680
gaaaagcata	attattactg	attattacag	gattattact	gaaaaagaaa	tgtacggaat	10740
agaggaggaa	ggagttaaca	aatgatccac	tctgggtgtt	gaaaacacca	ataagcctgc	10800
ttccaggaag	tgcctaagac	agagctggct	cagcttgctg	ggtcacagca	tgtaggaaa	10860
ctgctgggct	acatgccacc	atcctcagtt	gtccagatag	ataatcccat	agccccatgg	10920
ggaaataatc	tttaattatg	atatagctga	caccattcaa	agcactatgc	taagtccttt	10980
atgtgaatta	acttttgtca	aattttattt	tcataaataa	cccaaataatg	tataaccacta	11040
ttatcctacc	ttaaagagga	gaaactgagc	tcctaaagtt	taaataatcta	acccaagtta	11100
agactgctag	tcaccctagg	ctattaactc	aggcagctca	actcaggtat	aataacatta	11160
tgctactggt	tgcagctttg	actatgcctg	aattataacg	tcatgctatc	taactaaaaa	11220
gctaagggaa	ataaaatgag	ccatagggct	caatttcata	aaaggagaga	aaatactggg	11280
gaaaagtgat	aatgcagagt	ttaaaatatt	tttgtaaaag	tgccagagat	tgagtataac	11340
aagtgtgacc	aaaaaaaaaa	aaaaaaaaaa	aaaaggaaga	aggtaaaaaa	aagaggagg	11400
tctgagaat	agaaatatca	gaggaaggaa	ataaaggagg	gtgagagtaa	attctctttt	11460
agcattcaga	ttccacagat	tccacaaatc	acatttcttt	ttttaccaac	taaggaaaaa	11520
taacacttga	cctaacattt	cattgcagtt	agctaaagga	tgctagaaaa	actatgttgc	11580
agtggtttgc	tctaatttct	tcaggaatag	agaaaagtga	caaaaagatc	agagaagaga	11640
agaaaggaaa	ctatcagaaa	aatacagaat	tggagtagga	tataacatat	ttgggttgaa	11700
ggtaaaattt	tatatgttaa	tcttaagtat	cttgctactt	cagtttggtc	cctggaacag	11760
cagcatcaga	atctgccgag	ggcttggtta	aaaggcagaa	tctcaggtcc	catcccagac	11820
tactgaatc	agaatataaa	tactgacaag	atgccccggg	attcatatgc	acagtagagc	11880
tggcgaagtt	ccattgtagc	ctgtgattgt	tttctgcaac	ttagtatttc	tgagttttcc	11940
caaggaagaa	aacccaggcc	ttagcttctg	gcagacttgt	gtttctcctt	tacttactag	12000
ctgcatgact	catgagcaag	gaaatcaaac	tttatgtgcc	tgagtttcct	catctataaa	12060
atggagacta	taataatcat	ctcctaggct	tgttttgagg	atgttcaaca	aatgctcctt	12120
tcattcctct	atttacagac	ctgccgcaga	caattctgct	agcagccttt	gtgctattat	12180
ctgttttcta	aacttagtaa	ttgagtgtga	tctggagact	aactctgaaa	taaataagct	12240
gattattttat	ttattttctc	aaaacaacag	aatacgattt	agcaaattac	ttcttaagat	12300
attattttac	atttctatat	tctcctaccc	tgagttgatg	tgtgagcaat	atgtcacttt	12360
cataaagcca	ggtataacatt	atggacaggt	aagtaaaaaa	catattattt	attctacgtt	12420
tttgtccaaa	aatttttaaat	ttcaactggt	gcgcgtgtgt	tggtaatgta	aaacaaactc	12480
agtacagtag	tattcagtag	agtatttaag	cccctgtact	taaacaatatt	cctcgtacca	12540

atgaagttac	atgaaaagca	aattttgtgtg	agataticgta	gatggaagta	aattagttctt	12600
tatgtttccc	acaaattgaa	atgcattttca	aaaactctgt	gtgtgtatgt	gtgtgtgtga	12660
cagagtgtgt	gtgagagaga	gacagagaga	tacgctttgg	ttgcctccat	aagctggctg	12720
ctatgattaa	taagaccaag	ttttctaaag	aaaatgagat	cataacaaaa	gccctcttta	12780
tgactatctt	ttatcagggg	caaaaaggaa	agagacaaaa	cagcatgaaa	tgatgagacc	12840
aagtgatgaa	aattcattca	caatgattgc	tttcaagagt	aattttctctt	gggtaattca	12900
gcagcctgtt	actatggctc	tctggagtga	tagctaattgt	aaatgaagcc	tctaaaagtg	12960
gattatcctg	acaagaatat	actcagccaa	taatgcaaca	gaaatccatt	caaagcattc	13020
gggaaaaatt	caaaagaata	aatattcttt	tttttttttt	aaagttaatg	acctacgatc	13080
catttcttcc	ctgactaaca	agcagcaagc	acttaaaaaat	atccagccag	gatgaaatag	13140
aaaccacact	gacttggttaa	tatttttgtt	tggtcccagg	gactcagatt	ctaagccaaa	13200
ttctttgaat	gatcttggca	aatgtctcga	attattttttg	ccaacttttc	tttatcttgg	13260
aaaaaaagtt	tcatgaatgg	gtgtcaaaat	tgattagttt	taaaaaacct	tcttgcagat	13320
acgtatggca	ccctaaaact	gtattagaaa	aaaagtaagt	actctgtagt	gtgaaaaatt	13380
cttaaaggac	accctctttt	acaaactcac	aaaaacagcc	tttggaatac	ccacatgaag	13440
tagctgttgt	tattgctttc	tatataccta	catcttgtct	attataaaaa	gactggtttt	13500
tggcaggtgt	ggtggctcac	acctgtaatt	ccagcacttt	gggaggccaa	ggcgggcgga	13560
tcacctgaga	tcaggagttc	aggaccagcc	tgatcaatat	ggtgaaaccc	agtctttact	13620
gaaaatacaa	aaatcacccg	ggtgtggtga	cgggcacctg	tagtcccagc	tactcgggta	13680
gctgaggcag	gagaatcact	tgaactcagg	agtcagaggt	tgcaagtgagc	tgagatcatg	13740
ccactgcact	ccagcctggg	tgacagagca	agactccatc	tcaaaaaaaaa	aaaaaaaaaaaa	13800
gactggtttt	tcaacagcta	ttcccacccc	tctgcatgga	aatattcacc	cagtcaattg	13860
ttttcctagt	ttgggtaatg	gccctctggg	caggactgga	gtggggcaca	caggagaagc	13920
tgcaaactat	gtttagaagc	atgtctggga	aatgtcatgc	aagaaaagac	atattttaag	13980
gtaggctttg	catgaatgga	aaaggagagt	aattctatgt	agagcagagc	ctcttacttg	14040
cagttagaga	agcaaaagtg	gggaagcaag	aggaattatg	cttttcatca	gccaaatttg	14100
caggtaggag	gattggctca	gtcatcttgg	ctgaggctca	tgaaccagg	tgtaaagaaa	14160
gtggactaga	ttaatttcat	ccattacagg	aagaggagcc	gtgaaagata	atccagaaat	14220
cattgggatt	tgatggtaga	aggtattttg	ggactattcc	atgtgaaatg	agaagggtacc	14280
tgacattctt	tgaattcctt	tcaagcaaag	gattaaattt	acccatgagt	tgactcagaa	14340
aaaacataaa	aagtattggt	gctctgctca	gagttttatc	taactcattc	tcacttctta	14400
ttccatgatg	aatgacata	aatgagggtt	tttattgttg	ttgttgttgt	tttctggaca	14460
caaggcaagg	tagctacctg	ggcagagctg	ttttattttct	ctatgccgtg	gagagaaatt	14520
ggttaatttg	ccatggaagg	cagtcattaa	gatgttccca	tgcgagtgaa	ctttccaggg	14580
ttcccagctt	ctgcatcctt	ccctgtccct	caattccatt	gttggtgatg	acaatgtctc	14640
tcccactcagc	ctcatgaagt	tctctctcat	tattataaat	ttgctttcag	gaaaaatttt	14700
gaaaatgtgt	ccagtaaatg	ctgattggcc	ccttatccta	aaggcttaaa	ctggagggaag	14760
gaagctaaac	tgaagaaatc	tgcaaatcat	tgagccaaaa	acgtattaat	agcaagatct	14820
atcattttatt	gactagtatg	tgccaggcag	tgccctttta	tttaggcagg	gagagttgat	14880
ggggggggcg	gggttcacac	atcttaaaga	ggtgctatct	cctcctatat	aaatcatgta	14940
agtcaagaga	gtaaggaatt	gtctttgttt	gggttatattc	aggggattag	agtatacagt	15000
agaagatccc	aagaaacctt	gggatcattt	tagactaaga	aatgccaata	ccgccggggc	15060
cggtaggctca	cgctgtaat	cccagcactt	tgagaggccg	aggtggggcg	atcacaaggt	15120
caggagattg	agaccgtcct	ggctaacgtg	gtgaaacctt	gtctctacta	aaaatacaaa	15180
aaattagccg	ggcgtgggtg	cgggcgccctg	tagtcccagc	tactcgggag	gcgagggcag	15240
gagaatgggt	tgaactcagg	aggcggagct	tgcagtcagc	cgagattgcc	ccaatgcact	15300
ccagcctggg	cgacagaacg	agactccgtc	tcagaacaaa	acaaaaggaa	atgccaatac	15360
cagcagaaat	agagccaaat	catgaacata	agctaaacaa	atgttggcag	tgtagcctag	15420
tggttaagag	agcagactct	taactagaac	actgcactcc	atgtcctcac	tgtagaccct	15480
cactgtgggg	ttctaattaa	ccctgtttac	ttaccagtgg	cagtcttaag	gcattcctta	15540
agttcgttgt	gccccaat	gttcatctgt	agaaggggta	ggatgacagt	agtgtttact	15600
ttataggctt	actgtgagca	ttaaatgagt	tactactgta	tttgtaaagt	gcttaaaatg	15660
ctgtccaaa	agagtttgtt	aaacacttaa	gaactgattt	acttgcactc	aaactgacag	15720
ctctcaataa	ctggaaatga	tcaagcatag	gccctggaat	ataagcaggt	ctacatgaag	15780
gcaaaaatgt	tcgtttcttt	tgttcagccc	tgtgcctaga	tcaatatcta	gtgatcatgc	15840
tcaagaaata	ttgttgaatg	aatcaatgaa	cctaccgagg	tagttacata	aaagagttct	15900
gcatgagtac	aaatctgggc	aaagtgcact	ccaaggaat	ttccactttt	agattctgtg	15960

atttccttaa	ggaactgata	aattggtgtg	atacaatgta	aaaaaatgtg	cctatatgat	16020
ttgagaaaaa	cttattttct	ctccctcttt	tttccttcc	tccttccctcc	ctcccttcc	16080
tccttccctcc	ctcccttcc	tcctccctcc	ctcccttcc	tccttctctt	tcttcttttc	16140
tttctttctt	tctttctttc	tttctttctt	tctttctttc	tttctttctt	ctcttctctt	16200
tcctttcttt	cttccctttc	ttgtgccttt	ctttctttct	ttctttcttc	tctgtccctt	16260
ctttcttcc	ttctttcttt	ctgcctttct	ttctctttgt	ttttctttct	ttccctcttt	16320
tttcctttta	gcagaccatg	tctgttagat	gaatgccttt	ttctagttaa	aagggttaaac	16380
aggaaagtga	agcacaatta	tcaagggctc	ccagtcctct	ccacatgttc	ttaatcatta	16440
tcttctttta	cagtttcata	tctccaggcc	tttcattggg	tcagggtggc	atttcgctgc	16500
cctttatgtg	tgtgacaagt	gaaaataagg	aaagaaaaaa	actcaagtga	agaaaatcag	16560
aatctgcgca	gcagttccctg	ggcgtttcag	ctgcttccca	catcacctgc	ctcatcaagc	16620
cccagcatcc	atctccttgc	tcatcttaca	ccctgtgtgc	atgacaggcc	caccattcat	16680
ttatcagagc	aaaggctctc	ccactattct	gggttcacccc	cctacttagc	cagatatata	16740
agaatatctg	cacggatgac	ctgcctcacc	tgggagctca	gaggagctca	gattccatta	16800
ctatcgcacc	aaggacagat	ctcccagcaa	gaatgacaga	aaagactaac	tgcccccaaa	16860
atctcccttc	caaaacacag	ttctcttaat	tctcccaaga	aaccagaatg	tgactgctca	16920
cctctctaag	gacctgaaaa	caactggcca	tttcagctat	ttaaatcaac	tttaaaaaat	16980
ccaaccgcca	aaatattaaa	ccattttggg	tggaaatgata	acataactaa	cctgctgaca	17040
gctgcttctg	ctaggtgcaa	aaatggaaaa	aaaaatactt	ctaatacagg	caaatacctc	17100
tacctttggg	attctaaatt	tactcataatt	ctcaaagaaa	tatatccagt	catagtgggg	17160
aaaataggat	tattccttta	gctcgataag	caaccagaag	ttcttccctc	aaatcttgac	17220
atttaataca	tcagaaattg	atttttggaa	aactgtttcc	tatgaagcta	tctctgctg	17280
aaggattttt	cttttacaat	ccagactata	gaaggaaatt	cacaacctgg	actttcacct	17340
ccattggtca	gagttttact	gaccaattcc	cacctctgcc	ttacacctaa	cggaagttta	17400
tgctgtttt	ctcttcacat	accccaacag	ttacaaatgg	ttgttattat	taagcatctt	17460
ttattttgtg	gcctctgatt	acatggctcc	ctaaattttg	acctaatcac	aaaagattgg	17520
taaaatttct	taacatatta	ataatatttt	gtttatgtgt	caatatctta	gcatgtatca	17580
attaagacag	aggtcttaac	gttctctttt	tgaaagagaa	tattaggatt	cagagatatt	17640
aagagattct	cccaggatca	cagttaggta	acagagctgg	attttagtcc	aggtctgtct	17700
acagctctaa	cgtatatata	ccctttgtat	aacatgtcac	gaattcagca	taaagggatc	17760
ttcagtgate	taagtcaggg	gtcagcaacc	ttttctaaaa	aggaccaa	agtaataatt	17820
caggctttgt	ggacctatg	gtctctatca	taactgttca	aatcaccatg	tagtgtaaaa	17880
ggagccataa	gcaaaatata	aactaacgaa	tgtggctgtt	ttatgggatt	tttttttaac	17940
tctttattta	caaaagcagg	tggcagatca	gaactcactt	atggggcata	gttctctgac	18000
ccctgacctg	agaaaatcct	atattttatg	acaacattta	gactgtgact	tgccaagtaa	18060
gaacaagaag	ctctgtcaac	tgaaggtaaa	ggctggagtt	ctgaaagcaa	agagctgtct	18120
ggtgttaag	ataagtga	tagttaaagt	tagaagatcc	cagttataag	aagcacaaag	18180
aataatgacc	atagactcct	gaacaagaat	gtctggactt	ctggcttagg	cactcttggt	18240
gtatgggtcca	ggccaagtta	cctaattctct	ccaggccctcc	attttcttat	cattaaatga	18300
agataataaa	agtattttcc	tcagagagct	gtaagaataa	actgagctaa	cccatgtcaa	18360
gcacatagaa	tagggcccag	cctatatata	tttatcaata	aatgccagct	acataattagt	18420
tctctatatt	tttattcatt	atcataaaat	gtttatctac	agattggcat	tgttaaggatg	18480
gagttaaaat	tgtatgtatg	tgaaggga	ttattcctgt	tactattgat	ctgcatcaca	18540
ttacccccaa	tttgatggct	taaagtaaca	acattcattt	tgcaaacaaa	tttgaaattt	18600
gaggagggct	tgtctgggaa	gacttgtctc	tgccctatgt	ggtatcagca	gggggaggct	18660
tgacggactg	gcacatgcc	ttccagaatg	gcccactcgc	atgcctgcca	agttgggtgct	18720
ggctcttggc	tgggagctca	gctggggctg	agtgtctagg	tcctggggag	gttccctgtg	18780
gcctgaactt	cctcaccaca	aggcggtctg	ggtgcgagag	tgagcatttc	aagatagagc	18840
caagatgaca	ctgtattact	gtgtaagacc	cagcctggga	attaatgtag	cctcacttcc	18900
atcccactct	atttttaaaa	agtgaattat	taaggctcacc	ccatattcaa	ggggatagga	18960
attagacttc	atctgtatta	agaaaaatgt	ttttaaaaat	tgtagacatg	ttttaaaatt	19020
ctaaagtcca	cttactggct	gcagattatt	tatatataca	tgcaagatac	actcctacat	19080
tctctcttta	gaaggctcag	ttgcagggtac	agatgaagct	cttcaagtga	gatttcttat	19140
gtattttatcc	tctcaatctg	aagacttgta	aactaagaga	caagttattt	gcaacctaca	19200
tacgcaatat	tcaatggtaa	agtatacata	ggacagccac	tacagacact	cttgttttaa	19260
atagaggaaa	atgagagcac	ataacagtc	ttggctcata	gcaactctga	tatccagaca	19320
gcaaacacaa	gcagggtcttt	ttttagggtct	cagtcctact	gcctggattc	cctactgctc	19380

ttgggtcttc	cctccaggtt	cttgggtctt	ggacctcttt	tcattttaata	ctattttctgt	19440
tcctttaagt	tcaagctggc	aaaatatgat	tgtacaattc	tgtttaaaat	tccaggactt	19500
cctgtgatcc	ttattgggga	atactccatt	agacaagaat	ctctttgaca	taagccattc	19560
tctacctgag	atccctgtaa	ggctgtgatg	ggaccacata	accttaaaat	tattagaaga	19620
ctcattgttt	actgagagaa	tatgcctagc	atatgcttag	atccttagag	gaactctgtt	19680
tcaaagggct	tatgagacat	taccttatat	ctttctaaag	tacaaacaaa	aggtcttttg	19740
cttttgagtt	tgatctttga	gctgacacct	tttcttaatt	tgagaatccc	ctgctctatg	19800
gagagactga	caaagagaaa	tagttttata	tttgaatgta	acatcttgga	tctttaatag	19860
attatcttaa	aattttcctg	aaaatgtaac	agttcctttt	tttaaaattc	attctcccta	19920
cacacttatt	atatatgact	aaaagaaact	ccctggcatt	ttcaacattc	tggttagaat	19980
ttttcttagc	ccaatctacc	agtttattag	gtatatttgt	attttccacg	tcactgtagg	20040
tgacaatctt	gctaaacttt	ctgccactac	ataacaagga	tccctttctc	cagttttcag	20100
taacaatcta	ccaatagcct	cctcaaggct	taccaagctt	ctactaaaaa	tctctttcag	20160
ccccctccaa	cttctgcccc	ccaactagtc	ccagaagcaa	tacctatggt	ttagggttca	20220
ttatagcagc	atctagtctt	gagttctcag	aacctgtttc	gatcatgttt	cactgtttcc	20280
aaaacatccc	aaaacagtag	cttaagacag	taacacttat	tttgctcaca	ggctgtacgg	20340
gaagcatggc	tggagaggtc	tcaggaaata	tacaactatg	gtggaaggca	aagaggaagg	20400
aggtatgtct	tacatggcca	gagcaggaga	aagagaaggg	gaagggtcca	cacacttttt	20460
agaaacccag	atctcatgag	aacttactca	ctatcatgag	aacagcaaag	aagaaatctg	20520
tctccatgat	ccaatcacct	cccaccaggc	ccctcctccc	acactgggga	ttacaattcg	20580
acatgagatt	tgggcagggg	cacaaatcca	aaccataaca	gttggaacc	cttttttaaa	20640
gaaagtaatg	acatcaactc	cttgggggat	tggattgggg	gagaatattg	gagaggatcc	20700
aggggaagtg	aagatatcaa	gttctttata	cataaataga	tctatctttt	taggggaagta	20760
gaatatgtca	tttaggatag	ggaaagtga	agatgttact	ctattcagct	ttagggaaac	20820
tccaagatgt	aacactatgt	cctgtgaata	ttagtcttgt	ggaaagtgtc	ccattggaag	20880
aagacagaaa	atgtcctgct	gcacagagat	ccatatcttc	atgccacgtc	ttgcaaatgc	20940
agtcagggag	cttgctctaa	attcgtgttg	ccttttagga	agttacagag	catatttctt	21000
tatatcttct	ttatttttgc	ccttgatagg	agactgccag	ggattcagtt	attataattt	21060
tacatttatt	tatccttttc	tgggagcatc	tcataccttt	tttactagag	aggccaaggt	21120
cacaattaag	attaggggaga	caatacagag	tcaagacacc	tgaattttgc	cacactactc	21180
ttggggccact	ttaattgggtg	tttctgggcc	tcatttttat	tactattatt	attaattatt	21240
ttatggtgtg	tataggagct	ggaagatagt	gacttctatt	agaatttatt	cttataaaca	21300
atgctgtatg	gctcttggtg	taagaagtaa	atagaaaaca	aaaaggtctt	ttgaactgct	21360
gtctcttcta	ggtcttctca	gagtgtact	gggaattaga	tgggattaga	tgggtgaatt	21420
tcccttttct	tttgtttgag	aggtctagat	ttttgaagta	tctaaacctt	ctttagatct	21480
aagtttaatt	ccaaaagctt	ttattgctg	aaacattcca	gttctaggaa	gtttgcattt	21540
ctctgagtgt	aagggtctgg	tctgtaactc	cttgagatca	ggaatgtgtc	tttttatccc	21600
catagttcag	cgcctaccct	agtgtcttcc	ctacaagtga	tcattgaatg	aagaaaggaa	21660
taaattcctt	cttctctaac	atacatcaga	gacctctgac	ccttattggg	tcccccttcc	21720
ctattgatat	acctctccat	ctccagacat	ccacatggcc	tcctaggggt	atgggattct	21780
tcactcttct	cctggtacaa	gctccttgcc	tgaatttttt	ctgaccacc	cccatctcta	21840
accgtcacag	gttttagattt	tctgaagcaa	acatacagac	agagttcgag	ttacaagaca	21900
tttaatatga	atcgactctt	gtgaaaggaa	gaggggaaga	tgtgggactg	ggctcagtga	21960
gaagccaagc	tgtgacacaa	tgaaaacctc	agccaccctt	gcacagagct	caggaatgag	22020
tgtcacgtgt	tagagctgac	ctgggtcagg	tcaacattgc	tgggtgtttc	tgcttctgcc	22080
tcgttcagtt	gtcagatgca	agctgacctg	ggaagggttt	gactgggcaa	gatggctgtc	22140
tgcagatgag	gtcaatcaga	aggggctgac	agccaaaagt	ggtttgctca	tctcactacc	22200
cacagctggg	tggcaagtcc	ttcaagaggg	agctggatga	tgcttctcca	cctctaccac	22260
accaaacaaa	gcatttcttt	cttattcttt	ttcttctgt	ctcccttccc	cctccccctt	22320
ctcccccttt	ctcctcctcc	tcctcctcct	ccttcttctt	cttcttcttc	ttttttctcc	22380
ttcctctttc	tttagagaca	gggtcttgct	tggttgcccc	ggctggagtg	cagtggcaag	22440
gtcatagctc	actgcagcct	caacctcctg	tgtttaagca	atcctctcac	cttggcctcc	22500
caagtagctg	ggactacagg	catgtgctat	catgcccagc	taatttttta	atttttacta	22560
gagacagtct	cactatgttg	cctgggctgg	agcattttcta	ttcatgggtt	ttgttctctt	22620
ggagctgtgc	tgttctcttt	gataacatga	atatggattt	gtattttacc	ccttctggcc	22680
atcttaacta	atggcccaaa	ggaaggccag	tgggtgaagat	gtttctctac	aggggaagtt	22740
ctaagtgttt	ctcagcctac	atgtgtgagt	gtattaatgg	gaatactggg	gataattgga	22800

tagaatgtat	gaaattagga	ttggcctaaa	ctatctggtc	caaagtttat	cctagtggcc	22860
ctaataacat	ctccagtgat	ggtcttttct	gaggttatag	aatgagctat	aggaaaagat	22920
gatagtacag	gaatgagagg	attggatcgt	cttttctctt	tgttctattc	ctctatgatt	22980
atgtgatttc	ttttttttgt	gatggagtct	cactctgtcg	attatttgat	ttttgtttca	23040
gattaaggcc	agctttcttt	gactgagcag	acccacgtat	atgggaaacg	gccacacacc	23100
aaattaaacc	attcactgac	acccgggcac	acccattttc	accactctgc	tcttgcccgt	23160
gccattgcct	ttgcatccaa	gggattcttc	cttctgtggc	aatctgtatg	acatccttac	23220
taagaaggcc	tccttcagtg	cccttggccc	tctcacagcc	ctttccatgg	ccttctccac	23280
tagactgtga	ggaacccagt	gtctggaaca	gttcattggc	ttgttgtag	tggtgtcatt	23340
ttgttggtta	gccttctgct	gtcagtgggc	atttcatatg	tttgcatatt	tacgccctgc	23400
ctcttttttg	tatgcagtgt	ggaccctatt	gcacggctac	ttgtgtttca	gtggccttgt	23460
cctattccac	cttctatgcc	acttactctg	aatgcctggc	acattggtag	gtgcccaata	23520
ccaacttgga	aagtgaatga	atgtgttttc	tcattacctt	ttgaaatgcc	tatacagatg	23580
ttcctccact	tatgatggag	ttcattctga	aaagctcatg	ataagtagaa	gatattatgt	23640
cagaaatgta	ttttattgta	ttttttattt	tttaatcttt	ctttctcttt	ctttctttct	23700
ttcattcatt	cattctttct	ttctttcttt	ttctttcttt	cctttcatct	ttcttttagt	23760
agagacaatg	tctcactata	ttgcctaggc	tggtcttgaa	ctcttgggct	aaaagcaatt	23820
ctcctgcctt	gctctgccaa	agggtgaga	ttacaggcat	caactactgc	acctagttag	23880
aaaatgcatt	taatgctcca	ataaacccat	cataaagtca	aaccatcagc	agtcagtgac	23940
tatctgtata	ccttaggact	aagttagaag	ttggagatgg	taaagtttct	aaattagtac	24000
aagcacagga	gctcttattc	ctgccatttt	atgaaagtca	tgtgagtatt	ggtgaccatc	24060
actaatgggg	ctggtagaaa	ctttaggacc	agtctgtctt	agtcagctgg	gctgctacaa	24120
taaaaaacca	tggactgagt	gggttaaaca	atggacattt	acttctcaca	gttctggaag	24180
atgggaagtc	caagatcaag	aagccaacat	ggctggattc	tgatgagggc	tttttctgga	24240
atgcagatga	tcaccttctt	gccttgtcct	catgtggaag	agagagcaaa	ctctctagtc	24300
tctctttctt	ttcttaaagg	acaataatcc	cattatggag	gcctcatgct	catgacctca	24360
tctaaaccta	gttacttctt	aaaggctcca	actccaaata	ccatcacact	gaaggttagg	24420
gtttccacat	ataaacttcg	gagggacaca	aacattcggg	tcataacaag	tgcatctctac	24480
aggactccag	ggagtgtgtt	ggctaccctt	catcccacac	agctgcaaca	atcctaatac	24540
actgatatac	agtcaccata	tatttgaaat	tcactcagtt	cccaagaaaa	tatctgcttt	24600
cataatcatt	tctcagctaa	ggaatgaaag	ctatgataag	aaagtctagc	acttagtggg	24660
aaacaaactt	gaattaggcc	aggacccctt	aaatattgtc	actatgaaat	ccaagggcag	24720
tattttacatg	cttttctctt	atgatgacct	tagatttctc	ttctttatgc	tgcaatcaac	24780
tgaaaacatt	ccactgttgg	taatccttta	tcttctaaca	aatctaattt	agtagatctt	24840
gttactcctt	atttttgaaa	atattaaact	aaacaataag	tgatctttca	gggaaattct	24900
gcaagggaag	tggcttctag	agaatgcctc	ttctccaaaa	ggcctagttc	tatttctgat	24960
atctaatacag	ttctgctccc	tttaaataat	tactgaaact	agtttattgt	ttaaatgacc	25020
tcatttgaaa	gtgggacttt	cccctttgcc	ttcttccctt	ttaatttctg	tttttaatta	25080
atgtaagtgc	agtcagaact	gacggtgtca	acctttcctg	taactgtgat	tgccacttgt	25140
ggacattctg	tactcataag	agtgattctc	acaagttctt	taagtttttt	ggaagtgcac	25200
acccaacagg	aagaaagaat	aggactccct	gcattctatt	ttgctctgca	gtgaagatgc	25260
attgttgagt	aatttgcttt	acattcagat	ataccagat	tcccatcttc	ccaatccatg	25320
tgaactggct	aagttacaac	tctttataag	cctcaatgcc	tgcaactgaa	taagaaagtg	25380
gtaaccatct	catggggcat	tgggtaaatg	agataaact	tatgaagtat	gcagcacaca	25440
gccaagagcg	taacgtgttc	aatcaatgat	atccattatt	attacatgtc	aaatcacatc	25500
tgaacttctg	gattctactg	gggaaaagga	tgcaaaatcc	tcttgccggt	ggggtgtcaa	25560
atattttagt	acttatttcc	aaattcattg	gaggggtctt	tccctgaagt	ttacagatgt	25620
ggaatacacc	attcaggcag	gctttcttca	gtagtgcagg	tcatttcagg	ggttctccac	25680
attctagaat	aatttttttt	tttaccact	acagacacat	ttactggcaa	ggcccatgat	25740
aacaaaatga	aattaataca	ggctttacag	tcagagacct	aggcgacctt	gggttaattca	25800
ttaatatctc	tgagcctcta	tttcctcagc	tttgaaagag	gcataagaat	tgctctgaag	25860
aataatcatg	agtataaaat	aagataaaatg	agataaactat	gtaatatgca	ttagttagc	25920
accaagccat	atacaaaggc	acaataaaga	gaatctaata	tgtttctctt	attcccactg	25980
ctatgaactg	aatgtgtgtg	tccccgcgcc	accgcaaatt	catatgatga	agccctaatac	26040
cacattgtaa	aggtatttgg	aggtggggca	tttgtgaggg	aactagggtt	aaatgaactc	26100
atgaaggtgg	agcccccatg	ctgagatcaa	tgcccttatt	taacaaaaat	cagaaacaac	26160
aacaacacaa	aggaagacag	catgaaatct	ctctctcttt	ctcttttccc	ctctccctct	26220

gccttcatcc	ccatcgccat	gcacccgcaa	aagaaaggcc	atgtgaggac	ataaccagag	26280
ccctcccaag	accctgaccc	tgctggcgct	ctgatctcag	acttccagcc	tccaggacca	26340
tgaaaaataa	atgttggttg	ttcaagccac	ccagtcctatg	gtatttcagt	gtagcagttt	26400
gaactgagat	acctattaac	agatgttcct	ttccttcttc	tccctcattt	ttatggcaca	26460
ttaccagtgt	ttggtactaa	atactagctg	ttaattctcc	cttagtagaa	gacaatagag	26520
taatgctgag	ttggtctcag	ctgtgggaaa	ccttttgccc	agagagaaaa	attaagtctc	26580
ctaacagaaa	gctggcactt	tcccttactg	ggcatcagcg	aaaacctgat	tcccatgggt	26640
aaagtgagta	attgctaaag	ggaaacagat	catgtgcatt	tacatagtca	gagatgtttt	26700
atgggattag	gtgggtgatg	aagagtaatc	attataataa	ttttacaacc	cagacataaa	26760
agagaaagag	cagagaaaga	ccagttctct	tgtgaaatat	ttgccattta	atatcttttt	26820
atctttgggc	aagccaactt	atcttcttac	aaataagcag	taactagaca	cagatatatta	26880
agaggagaaa	tggaccttag	atgttctgtg	gcataatttt	cctttcacat	aggggaaaaac	26940
caggaccaga	gcagcggatg	aagatgccaa	gatcaggcac	tgccaattgt	tttgactacc	27000
tctagggaga	tcctctcatg	actcacacat	tgctctctc	ttgaaaatga	gtaaagagtt	27060
gccaaccaaa	attcttgaaa	taaggtcagt	tataaatgcc	tatagcagct	accttctttt	27120
ttattattta	gaaaatgatc	attggaactt	gttatcagaa	gacacaggct	gagaggggaag	27180
ggatgtattt	tttcacatgt	caaggaacca	ggggtaatat	aacattcaca	ttctagagaa	27240
aggtcaaata	ataaattgcc	ataaaaataca	gactgctcat	gagctgtttt	gaaatcttgg	27300
cttcttgtca	aaaaactaaa	ggtggaggag	agtaaaatcc	ataactgtgt	gctttttgtg	27360
taggtgtgtt	ggactgaatg	tacatatgat	tggatcatag	agatgatcaa	agaagtgtat	27420
actattcctc	aacagaagag	gacaaaaaac	gaaattgaca	tttgttgaca	tttccttggc	27480
cttagaagtg	tttgtaaatg	acagagttag	gatttgaacc	cagttccagc	gagttttaaag	27540
cccaggttat	ttcccaataa	gccaaagaaa	tttccaatgc	caacctatc	ctggcatctt	27600
tagcagcaag	agtgattata	gtttccacag	acagaaattg	tgtacagagt	tgggtgaaag	27660
aacagtagct	ccaacatgct	tggcatcaag	gctgtgactg	cacgaactat	tccaggaaaa	27720
ctagtcatca	caggtgattg	aaaagagaag	atatctttta	gcagactaaa	atctgcaggc	27780
atcttcatca	ctccttaatg	cagacagaca	aaactgattg	gctagactaa	taagatcaga	27840
ctttgttttg	gaaactaaat	gtctattaag	acacgcgaga	agacaagatt	tcctaaacat	27900
agactatgaa	tagactatga	atagtcaaga	gggaggtcga	ggaaaagggg	attcccccta	27960
acatggcaga	tcaaataatt	aaattttaat	gacatattag	atggaatata	agaagttttt	28020
gtgttatgaa	ataaaaagaa	ctcattcttt	taaaaaatgg	caatccaata	tttatacacg	28080
ttcttctatc	ttatagcatg	actgaattcg	aagtgttctt	gttcatgtct	ccttctctga	28140
gaaagagtaa	gtgcctccac	aaacacattc	actgggagtc	cagaagtggg	gagtatcgtg	28200
ttttcactgt	tcaaggtcac	gtagtggttc	ctggcccaaa	caagtaggag	ctttctaaaa	28260
ttaaaggcaa	ctatccataa	aggttccttc	atctgctgtc	tcctagtcca	ttggcaggac	28320
ttggcaggga	aagccctctt	cttgatagag	atattggacc	tccaacctat	ctcttcatct	28380
tctcccatac	atctcctcca	tacagggttg	tcaggtcagt	aatccctact	ggccatttag	28440
aaggtgacat	ttatcaatta	taattaggtg	acttaggagg	cttactcaac	tccccagaat	28500
ctcagtgtcc	tcactgtga	aaactggaat	aataaagcct	atttcataaa	cctaattctt	28560
catattaaat	gggataacat	atataaagca	cttagcacat	gctatgacco	cagaagatac	28620
agattcacag	agcagatgga	gcactgctgt	gtctcatgat	actcaagctt	gaatatcaag	28680
cttgactccc	attctgctaa	ttctccctct	ggctactagg	acatcttgac	tttcagggtc	28740
tggactctgg	gccttaaggg	aaagctaaga	ctcgtccttg	tatttctact	ttatgtaggt	28800
agaagctgat	ctgcattagg	gctggttgct	cccttctccc	catctcaagc	cccagaatct	28860
cttcttgtat	taatctctct	cccaaagttc	ttgctgagg	cagatttcat	agtctgctt	28920
tttcagcacc	tgttcttaat	tagttcaaac	ttttgcagg	tttctttcag	gccatatatt	28980
atltgtttcc	tcagaaactc	ctcttagact	acatccttta	tctccagaca	cctgggatcc	29040
acattgatcc	ttttattttc	cacaatttct	aacctgaac	agctgcatga	atgtaagcaa	29100
gcttctaagc	atagatgggt	gggtgggttg	gatgtgtaca	cgttattcat	tcattcagtc	29160
atacatttat	tatttataaa	ctacttattg	aacacttcct	agtgttgga	atttttttta	29220
aaatctcaag	cgatatgcat	atcaatacaa	aataatttca	gttctcaaga	aacttaatct	29280
tgggaaggat	aaacaaagac	ttataataca	atatggtgca	agattttaca	taaagcagtg	29340
gttctcagca	ttggctgaat	aatagaacca	cctggctata	ttatatagtg	atgcttgact	29400
ccaactcaga	ccaatgaaat	caaaatccct	gtgagtaaga	cctgggcatt	gctatgtttt	29460
gatagctttc	caggtgattc	cattctgcag	ggaggtttga	gaatcccttg	gatagaggga	29520
agtatgggct	gccttggggac	cacaattaag	aggtccctac	tctaattggg	aaggtgctaa	29580
aggctgcaaa	gggaagatga	catctgagct	aagtcttttt	tttttttttt	tttttttttt	29640

tttgagacag	agtctcgcctc	tgctacccag	gctgaagtgt	agtggcataa	tctcggctca	29700
ctgcaacctc	cgcctcctgg	gttcaagcaa	ttctcctgcc	tcagctgccc	cagtagctgg	29760
gataacatgc	acccgccact	atgcttggtt	aatgttttgt	atTTTTtagta	gagatggggt	29820
ttcaccatgt	tgaccaggct	ggctcaaact	cctgacctca	agtaatctac	ccaccttggc	29880
ctcccaaagt	gctgggatta	caggcatgag	ccaccacacc	cggccctgag	ctaagtcttg	29940
acaaatgagt	tgcccaagtg	aagatgtggg	aaagccattt	caagggcaga	ggaacaagat	30000
gagttcatag	aactgcctgt	aattttgggt	acagtttaga	gagtgcataa	tgctaaagca	30060
tttagcctgt	ctctggcagg	caaaaggaga	gtcattgaag	gattgttaaa	aaggaaataa	30120
tatggtcagt	attatataca	tctgaagtac	caagacatca	gttggggagc	aaattttact	30180
ttcattgcat	cttgccccag	cagaactatc	tccctttaat	aagaccttta	aaactgttgg	30240
cacctccctg	gcttcaaaca	ttagaaacag	gaaactctac	ccatgagcta	accttcaccc	30300
catcctttcc	tgaacaaaag	aacatctggt	ctcccacttg	gatgtgcctg	gagtaaagag	30360
gggcgccata	gtattctcag	ttgactacag	agaaatgatt	ggcgtcacgt	agattagtca	30420
tacatacatg	cagatgatga	catagtcaaa	tgtattgaga	catttttagtt	ccaaaaagta	30480
agtgttttgt	ttctgataca	gtgctgtcac	ccttggccag	ggaaaccag	ggatcatagc	30540
tgctacagat	aaattatgat	ttattccttg	gaagagggcc	tgaactcaaa	agaaattaag	30600
tagtaataac	acttgaaaat	tctctttctc	caatttcagt	atgcaaactc	atttacatat	30660
caaccaagcc	tttgggacag	gttagttatt	gtttgtggtg	gtagtgggtg	tgttgtttat	30720
gtttgagttt	tgtgtttttc	tttaattctg	agatacatta	tcaatttaat	gacaactttg	30780
caggataaaa	aaggaggagg	agaaaagaag	ggaggaagag	aaaggggaag	aggaggagaa	30840
gaagggaaaa	aagagaaaaa	atgattaaat	tttaatttgt	ttctaattgt	gaaacaatct	30900
aatttcaaaa	atgttaaaat	ctgtgtgttg	ggtagagat	gggaaaagta	tgctgtataa	30960
taaaaaaaaa	atccccagga	ggaaaatgaa	atatttttag	aggtactagg	aattttatag	31020
tcaatgggat	ccaaagctgt	atTTTTtagac	agagaaactc	gaggcacagg	tagacgagaa	31080
atTTTcttca	aattctcgag	ggaattactt	agtagtgaag	ctggaatcag	aaacctcatt	31140
tctcagcctc	aagtttggtt	tgctttccat	gacaccctag	aatattccaa	ctaatatctg	31200
agaagcaaaa	aagcatctca	tcctttctac	tcataattct	ggctgaggga	actattcaaa	31260
gagataaagt	acatgaataa	ataaaaaatg	tgtatcacag	ctaagtacat	cttagcaaaag	31320
aaataagcaa	aagactatgg	tgccctcagtt	ctcaacactc	tcttttggtc	atTTatttag	31380
tggtgtttat	cttgagtagg	tgattcctgc	atatcaaatt	gcattttggt	gtgtcaaaagt	31440
gactggtttt	acttgtttgt	tggttcctaa	agctaattat	tattttttaac	accttttgat	31500
atgctaaatc	aggctaattg	gactaaaatg	ggattttctca	tgggtttatt	agtcatcaac	31560
accatcttac	atatgtgtat	atatgtttta	atgctttcaa	agtgtaaata	aatgattata	31620
cttgagactc	atacaaatat	cataaagcag	ctttttcctt	agtattcctc	ctagaaaata	31680
gatatttcat	tggcagagtc	gtggtgaaag	atgtggtgtc	atacaataaa	tttacttcag	31740
ccagctgtgc	gagcttaagt	taccagtttc	ttttctgcct	cagtggcctc	ttctgtaata	31800
tggaactgata	ggggactctca	catgcctgtg	tttagaatta	agtcggataa	ttcatgtaaa	31860
gtgcttagca	agtcacctgg	cctattataa	ctagccatta	ttgtttgcta	gaacatttat	31920
ctgttcacaa	attatgcatt	gattgcctat	aataactaaa	cttgaggaat	gcttattacg	31980
taccacgtac	tattcgaagc	acatcacaa	tagtaactca	tttcattttt	ataatgactc	32040
tttgaggtaa	gaactattat	taccatctct	gctttacaaa	tgaggaaatt	gaggcataga	32100
gacgtaaagt	cacttgttca	aagcctagca	tctgggaaac	agtagagggtg	ggactcaaac	32160
tcagaaagcc	tggtcatagg	ctctgctctg	ctgtctcccg	ggattggcca	catgctaagc	32220
attggggcaa	cagcaatgag	gcccataggg	tttctgctct	caaggagatc	actataaatc	32280
agccccggga	gatgatccct	aaaagagaag	tacgtcgttt	gcaaaatgac	agcacagacg	32340
cacgagttct	gaactcttcc	tcagagtttg	gggaagttgt	ttagccctgc	tttctgcctc	32400
ctctatgggt	cacacacata	ctccgagtga	agaatgacgg	agttacccat	cttctggctc	32460
cttcccgtga	cactggctac	cctatgctaa	aaaccagccc	ccagattcca	catccctgaa	32520
tgtcttattt	acaggttctg	tcattttcat	gataaccttt	ctaattgttct	aaatttctct	32580
tctgtgggtt	gtcaagcaaa	ttcattctcg	gcagtcagta	agaactcctt	gttcaaaatg	32640
ccacacatta	cagagtcaat	gattctaaac	acattttttt	ttagtgcata	caacttataa	32700
gctgcagtgc	tagaaacaaa	ttcacactcc	ctttacacta	cagtgccata	ttttccgagg	32760
gtggggctcg	cgtttcttca	ccatccagtt	tctcatacgt	agattatgat	ttctgctttt	32820
gccaaacagg	acattgtttg	accaagtcct	tatgggagga	agcacagccc	agtgagcaga	32880
acaatgattt	gaaagtcctg	ggttctattt	tcagctcctc	tggtgactag	ctgcgcattc	32940
agccctagga	aggtcaaaa	cagaatggcc	ttgctttgac	gactttctct	gcatgtacag	33000
ctctagatgg	aaaatatatc	aggcatctgg	ctctcagcct	tgaggagctg	gtctttggag	33060

aatacatgtg	tagtcacact	ttgttttcat	ttttaaaagca	aaagaacaaa	acaaactctc	33120
tagggggaaa	atgggctggg	agagaatgga	agagagaaac	ctaataacat	tttaaacaat	33180
ccaggagtta	agggattgct	tgagtcattc	agatcaaaga	aggctctttg	gcacaagttg	33240
gagtcctcgg	catttgaaaa	tggaagaggc	aaagaggagg	aagctttgag	agactttttc	33300
aaaccgggac	ggtagcagat	actcagaact	ctgcctgtag	ggaccaggcg	gggaactcag	33360
gcagggttaag	gcctgtgggc	aaactggaaa	gcccaggcca	cctgtgaagt	ggctctgctgc	33420
tagtgatacc	agatgcttgt	tgtggaagaa	ggaagttact	cttgccagaa	cagctgaatt	33480
ttcaagagaa	actgaacatt	gagatttttg	tcattagaac	ccctgatttt	tttacatgat	33540
gaaatctaata	catcattttt	aaacttttaa	aggggcactg	agcaggcaag	atcaaacata	33600
tagcctaagc	aatgtactcc	ccatgtctct	tctatatgta	gatgggggtg	ggttccttaa	33660
gggcttttagt	tgtatgttct	gtgaatgaat	agaggctaga	ttccagacaa	aaatgattag	33720
cagtgaactca	acttttagctg	cacttttgaa	tacctgggtg	ttacctggga	ctgcagcctg	33780
agcactggga	ttttataaat	gcttctcaag	tgattccagc	atgcaaccat	gaataagaac	33840
cactatgtta	ggatattgcg	agaaggttta	agcattacag	aaagttgggt	tttaacttga	33900
taagatacat	aatcttatca	agacacatgt	gatctctgaa	catggatcag	ggaattgaca	33960
ttcaatataa	atggcatttt	cttttctttt	tttagactct	tttgagagtt	ccagttaaaa	34020
actctctagc	atcattgctg	atggccgtaa	ttaatatctt	tgggttcatt	agcaatcagc	34080
taacaacaga	catccattgg	caaaacaagg	gtatagtggg	agaggtcaaa	cacaacgaaa	34140
gccaaaggac	aagtgcgaag	cctgagcaca	gataagtatt	tacagggaaa	attaactttt	34200
tttctgatgg	ccatgaagca	aaatagacag	tagagcaaa	ggagcctttt	acaagagcag	34260
ttcaatcttt	gtccacattc	taatggctat	aaaactcacc	atgaagctag	caaagtgtgc	34320
atacaactaa	tactttcagt	cttttcttcc	ttatttcaca	ggctcttatgc	attataaata	34380
acacgactaa	gtctcagcgg	ttgtatccat	ggctagtctt	tatttcagct	ttgggttcctc	34440
ttgctatttta	ctatgtttct	cataaaagat	gttagtgtgg	attgagtata	tgaaatcatg	34500
tacaatggaa	tgttaaattg	ggcattccct	cttgtctagg	tatatcagaa	gaggcccaat	34560
acacttggtg	ccaaggaagc	tcaccttcta	aaaccagatg	gtagcttgcc	tataaaagga	34620
tacactaaga	ggttctaccc	aagttatcac	attggcagcc	tccagcttat	caagagagac	34680
tttaaagaac	ttggcagtg	ggatctttct	agagggcggt	gtcaatttag	gaagcatctt	34740
cgtcttcatg	cctcaccttt	ccgataagtt	tgtttcttcc	ttaatgcaaa	caaaatgaga	34800
gacactttga	tgggaccact	tgcagagctt	gacatgtgtc	atctggattt	taacagacag	34860
atatcattga	gatatctgac	tcacacctga	aaacactgta	actagaacta	ctctctctct	34920
ctctctctct	ttctctctct	ctctctctct	ctctctctct	ctctctttat	gcctaaaaca	34980
gagctatgtg	gaggctaagc	aggacttcca	aaatttgaaa	caaataagga	acctgttcaa	35040
agaaggcaga	ttgaggcatc	ttgaaagaaa	ttgcctggca	gggtgtcatg	actccattag	35100
ggggaacgta	ccatttgaag	ccaagagata	aaagaagtca	tggatgacta	gcttgagaag	35160
gcgtaactgg	agtcagggaa	acagttactg	agagagatgt	cctgcaatgt	agggaaaaag	35220
agggagcttc	cccaaactca	acacaatgct	ctatgaaaca	cacatcagtt	gggatgttca	35280
ctaaactcag	aggatcacaa	tgacagatta	taagagcgcc	agtcaagtta	gaacttctta	35340
ttccatctta	cgaccttcct	cttctctccc	tacactcttc	tgtattcttc	ctcttgctcc	35400
cccacagcct	ctatactctg	agaagcagtc	tcttgctctg	ctccttctgt	gaattgttaa	35460
ttcaattatt	tcaaattttct	cacttcattc	tctgtctagt	gggtgtgagt	cctgggtgtc	35520
tggggatctc	atatgtgatt	tattgtggtc	agaatgcaaa	aatataggca	aaatcataac	35580
atagtagtta	aattttataat	tatttggatt	attgaaatac	atctataaaa	agtattttat	35640
aatttgtttt	gaatactttg	tctttggaga	ggccagaaat	cacagacagg	aaaggaggag	35700
gagatagaga	gaggagaaga	tggggaaacc	aacctggcct	ctcctcctac	tcctggattt	35760
ccaatctgat	aacagagttg	tgagaaaaga	cagagcttaa	gtttacatgg	ataagacttt	35820
tgactagact	ttttactacc	ttggaaaaaa	gcttttttaa	aaaattttatt	acctgttggt	35880
aatcagaaaa	gccaagagag	aactactcag	agttttatta	gttagaggaa	cctggggatt	35940
gagggtgagt	actcaaaatg	tcagggtttg	aggggcagaa	gcaaaattta	aaaaattgtt	36000
tatacctgca	acctgtcaag	tccagtttac	acaataatac	aaaataaacc	aatttaactt	36060
gaacacataa	aatgttttca	tgatgtggat	tcaatttaac	aagggcacaa	catgatacca	36120
cagtcactct	tcaaaattct	catcttttag	attcagcttt	ggtaccttaa	agatatattg	36180
ggttacagca	acatttctgc	aggaagctaa	tatgtattcc	ttaaaaagag	ttccatgatc	36240
aaagatattg	gtgacaaaac	tgttccactca	aaaaataaat	agaggccagc	catggtggct	36300
catgcctgta	atcccagaac	tttggcagga	caaggcagga	ggatcacttg	agccccagag	36360
ttggaaacca	gcctagacaa	tatagcaaga	ccctgtctct	aaaaaagaaa	tagctgaaag	36420
tgggtggcatg	tgccctgtagt	cccagctact	tgggaggctg	aggtgtgatg	atcatctgag	36480

tccaggaatt	taaagctgct	gtgaactatg	aaggctccat	tgcaccccag	cctgggtgac	36540
agagcaagac	cctacctcaa	aaagtaaaat	aaataaataa	gtaagtaggg	tttttttttg	36600
ttgttttttg	ttttgttttg	tttttaactg	taggtctcct	agaatgtttt	aatgtgtgtt	36660
gtaagggaac	aattctataa	gaaagaatac	ctgggtggtg	catttttcaag	ctcatttggt	36720
caaaggctgt	tattattccc	aaatathtag	gcttccattt	attaaatatt	tgctgaacat	36780
ctaccatgtg	caggcatggg	ggatgggtgt	tggggtttaa	ttaaatatat	caaatgggct	36840
cctctcactc	aaagatctta	tgatctaata	gattgcttat	tttagtcctc	atcttagttt	36900
gaaaatctct	ttggagagat	ctgttctatg	ccatttttca	gatttctgcc	actgcaaaac	36960
tatttggttaa	cacaaaaata	caaattacct	gaggaagaag	ttgtgttgta	aaatagatgt	37020
gtttttataa	aacaaaatth	aaaagtgcac	tcacaacca	gcataacaaa	tatgcttttg	37080
tcacctttcc	tttctgtcct	tgatcaactt	cagctgatta	tggaaaattc	ttgataaagt	37140
tataaagtca	tcacctctct	tttctcttag	gtctaactcc	tttccttgta	ttggacgtca	37200
aatccccaca	ttctactctt	tctgctccct	cagaaaagat	ctgacatcag	tcattcggat	37260
tgggtgtgggc	ttcctgtgag	atattttgac	aaaggttttc	tttatgtgtt	agcactgaac	37320
agttttggca	attttcttcc	ccttcaccag	cctactacac	atgaccacac	aggtgtttac	37380
atatgtacat	acacacagct	gcacacttac	cttccttcaa	aacaggccaa	atgcaacatc	37440
ttgtctcctt	cttgacaggc	aagtaggaga	cctgtgttga	gtgacagaat	tcctttacct	37500
tctgggctat	agcatcccag	agaatgtcct	cacgtgggag	ttttctatgc	atggctttcc	37560
ttgattccca	ggaagatcta	catccagtta	acttaactat	ggcagctgaa	tcctgacaat	37620
ggtgtgaagg	aaaacatggt	ggatacaaat	gagcaccatg	ggtacagctt	gatgatgtcc	37680
agctttatgc	ataatgtgga	ctggcagggc	ccttgatcat	gcctcaatag	ctgtgaagat	37740
agcagatggc	aaaagaagtg	gtagggttcta	agtaggttcc	ccttctctac	tgggtgccac	37800
agactcaaaa	ggaattttta	ctacaggaag	ggacccaaat	attctagcct	agcctctata	37860
ctctgaaaag	cagtctcttg	ctctactccc	tctgtgaatt	gttaattcaa	ttctttcaaa	37920
tttctcaatg	gattctctgt	ctagtgggtg	tgggtcctgg	gtgtctgggg	atctcataca	37980
tgatttcttg	cggcctaaat	acaaaaatgt	aggcaaaatt	ataacatagt	agttgaattt	38040
ataattatth	ggattattga	agtacatcca	taaaaagtat	tttataagtt	gttttaaggc	38100
cttgacctgt	tcaacatatt	tcttaaatgt	atctcaattc	cttctacatt	ttgctatcat	38160
acgtatcgcc	atthtatgtc	aggctacat	catctaagac	cacaataata	ggtaccaact	38220
tatcttccca	cttttgtcct	ctgcaattga	aaaataaate	agggttttta	cttctgacca	38280
aaatggaggt	ctcaggtgtt	tgactaaagg	tagtatagca	ctgtgatgct	aaaataaggg	38340
aaagcaatga	cgtgacattg	agtgattgtg	agtggccaac	catccccatt	ctcctagttt	38400
gcttgggact	gagggagttc	ccagaacatg	agactttcag	tgctaccact	gaaaatgtcc	38460
tggccaaacc	aggataagtt	gttcatctga	aagccctgtg	tttttaccac	ttgacagctt	38520
gtagaaagtt	tccagtctgt	agtacaggaa	ggagagactc	ttatatagct	tgccaggctt	38580
gagttgagga	gatagaagca	aaaatttaga	gagacaagga	ggctagaatt	tgaaggggtg	38640
gtagtaaaag	gaagaaagct	gcacaaagag	ggagacagta	gactacagat	gtgcagaagg	38700
gtccctttca	gttaattgag	ttctgatctc	accattcatg	agagatgtct	tagtctgttc	38760
tgtgtttcta	taatggaata	gctgacactg	ggtaatttat	caagaaaaga	ggtttatatt	38820
aatcatgctt	ctggaggttg	ggaagtccac	aaagcatagc	accagaatcc	acttggtctc	38880
tcgtgagggc	ctgtgctgca	atagaacatg	acaagaagta	gaaggggaag	cagacagaga	38940
tcaaacacaa	gaggcaccac	actctcctaa	gaactaatcc	atccctgtga	gagctaattc	39000
aatcttgtga	gagcaagatg	gcacttctca	caatcttgtg	agagtaagaa	cccactgacc	39060
accgtgagaa	tcgcaccaag	cttcccatga	aggcagaacc	ctcatgaccc	aaatgtctcc	39120
cattagattc	cacatcttaa	agttccatct	cctggcattg	ctgcactggg	aattaagggt	39180
ccaacatgag	ttgtggagga	gacactcaaa	ccgtagcaag	aggcaactat	ctgagactgg	39240
ggaaagaaat	atcagaaaaa	agtaagtga	aaacccatgg	accctcacac	agggctgcaa	39300
ttagtttgtg	atcccaaaa	aaggaaagga	aattgtcata	atccaataaa	cattgggtag	39360
aatattcaga	ggagccctgt	gttagtaatg	aggataaatt	agccttaggc	taaagactat	39420
tctggaccca	tcctaacaaa	gcttacagga	taggatccaa	ttgcttccaa	ataactgtgt	39480
ttcagaaaaa	caaaaaacaa	acaaaaaaa	actaacatta	cttaaagaaa	tataacaaaa	39540
tcataaaatc	aaggagcaag	tcaagaaata	gaaaaagaat	cagaaatgat	ggagatgctg	39600
gaactaacag	acaaaaatct	aaaactatta	taaatattcc	ctacatgtcc	agtaaggtag	39660
aggaaaagat	gagcataatt	aagagaaaaa	ttgaagatat	taaaaaatat	tcaaatggaa	39720
cttctagaga	aaacaattat	aaatgagtga	tcaaaaaata	aactacaggg	ttttatagaa	39780
aattggacac	tgtaaaagaa	atattgggtg	actgaacat	aaagcaaaag	aaaatgaccc	39840
caaacaaaca	ctgagagtaa	aaaaaaaaaa	gacaaaaaac	ccccagaaaa	tcagtgaagt	39900

atgggaaaat	ataattgtta	taacctacaa	gtaattgaag	ttcaggagga	gaagtggaga	39960
atggaatatt	ttgaaataat	gatgactaaa	agttccaaaa	tttgatgaaa	atgataaccc	40020
aaagactcaa	gaatttccat	gaacctcaag	cagaagaaaag	gcttttaagc	aataaaggaa	40080
gctaagaaaa	atcatagtaa	aattggcagg	agagtgggaa	gaacagtga	aaaaacattt	40140
tttaagagca	accagagaaa	aaagataggt	tacatggcaa	ggaacaaaag	tgagaataat	40200
gccatccttt	ttgtcagaaa	ctattttaagc	caaataataa	taggcatctt	taaaatataa	40260
aaatgaaaaa	aaagttaatc	aagaattggt	tatacaatga	aaatatcttt	caaaaatcaa	40320
gtcaaagaca	gatttttcaga	caacaaaagg	aggagatgac	tcataatcac	caagtgtgca	40380
cttaaacaaa	tattaaaata	aattatctag	gcagatgaaa	aatgataaca	ggtggaaaat	40440
ttgggcctac	acaaaggaat	gaagagagaa	atgaataata	tgtagataaa	tgtagaacag	40500
atTTTTtatt	cttttccagc	ctctttaaga	gatgaataac	tcttttaaagt	taaaaacaaa	40560
aaagaacaaa	ttctggagtt	tgtgtcatac	atagaagtaa	aaagcatggc	aacctagcac	40620
aaaaggttaa	ataggaaatg	gatggatact	gatgcaaggt	ccatatacca	tgagtgaagt	40680
cgtataatat	tacatgaagg	tgaactgtga	taaattttaa	atgcatatgt	actgtaaacc	40740
tcagaagaac	cactaaaaat	agttatgtct	aacaagacaa	tagtaaaaat	aaaataaagt	40800
aataaaaaata	actaataaaa	ataataacag	ggagagagga	ataaaaaaca	aagagaagac	40860
aagtaaataag	aaaacaaata	accaatatag	aagattttaa	accaacagta	tcaatagcta	40920
cactgcatgt	taacagtcta	gacacttgaa	ttaaattggca	gatactggcg	ggattggatt	40980
aaaaggcaat	acccaactat	atactgcctg	aaatatagta	cttaccaagt	ggatttttaa	41040
aattaataat	aaaagaatgg	caaaagatat	accatgcaaa	cactaaccaa	aagaaagctg	41100
gagtaactat	attaatatat	gacatcttat	agttccaata	tttatagttg	gaaaattaac	41160
acctcaatct	cagtaattga	tagcaaaaagt	agacagaaaa	atcagtgaag	atacagaaga	41220
cttgaataac	actgtcaatc	aacttgacct	aattaacatt	tatagaacac	tccatacaac	41280
aagaggaaaa	tctacattct	ttccaaggct	attcagtaag	atagacaata	tcctgggtca	41340
taaaacaagg	ctcaatcaat	ttaagagaat	taatgtaata	caaagtatat	tctctgacca	41400
caggagaatt	aaactagaac	tcaataacgc	aatatatctt	gcagaaaact	ccaaatattt	41460
ggaaacccaa	ccataggtca	acgaggaaat	cacaaatgat	atcagaaaag	attttccctg	41520
aatgaaaaca	aaacacaata	tatcaaaaat	tgtggaatgc	aactaaagca	gtgcttagag	41580
aatttatagc	attaaatatt	tatgttagaa	aagaaggctt	tcttaaataca	atgatctcag	41640
cttccacctt	agaaaactag	aaaaagaaga	ggatatatta	caaaagttaa	aaataaaaaat	41700
aaaagctacc	tttattgaac	acttaccagg	cattatctta	agtgatttat	gctaagtgtc	41760
ttttccaatc	tggtcataac	attatgagtt	agtcatgatt	aatatcccac	atttcagatg	41820
aggaaattaa	atcttgtctga	acttctgtaa	cttccaagtt	tatgtagtta	accaagagcc	41880
agagttatta	tttgaactca	ggtctctatg	ctggttgaac	ttcaacatcc	tacagattga	41940
gtgtatttat	accgttaagc	atatttttatt	atcttcagggt	ttgatatttc	tttgttgcat	42000
atatattata	catatatata	aatactatat	acacatacat	acacgaattc	ttcattttacc	42060
tagaaccaaa	aggaccttct	cctagcatgc	tggagaatgt	ctagagacca	gacattgcta	42120
ttatcatctc	tgaaaactgt	ggcatcagtg	aaatgacctt	ccatgaagga	tgtcactggg	42180
aagtctgtga	tggcagtcga	tgaataattt	gcacttgttc	ctgccagtct	ttcaagctac	42240
atgatctcga	gtcatggaga	tatgggtgag	caactgagta	tcacagtgtc	ctccatggcc	42300
accataactc	actcaagtct	taatatcttc	tcgcaaggat	aaaccagacc	tccttaaaac	42360
aaaatcaagc	tcagtgttct	tacatgagaa	gccaaattca	tctttctcca	agcacaaagt	42420
agtaaagagt	gctggacatc	tgattttctat	ttgtagaact	gccaggcaat	tattgtgtgt	42480
cttgggcaag	ggacttgatt	ttctaaatcc	tcagttttct	ctggttgcaa	atggaagcaa	42540
aaagatctct	ccaatgtcct	ctccttggtt	gctgctttct	gcactttttc	tcctacacaa	42600
ttgacaattt	taactgcctt	atcggtataa	ctactgaaga	atcagttccc	aatatccatg	42660
aaggtaaaag	tcagatatta	ttattcatcc	actccaaatc	ctccaatgac	ttcccatttc	42720
actaaaataa	aaatgtaagt	ccttacgatg	tcctcacaa	atagtttctc	ccatccctct	42780
gtacagccta	ttatttcttt	ggcttttatct	attattcctt	ccctctgtat	tagtcagctg	42840
ggttcccgtg	atgaaataacc	actgactgag	gagcttcaac	aacacaaatg	tattttattta	42900
tttattttat	tttattttat	tttattttat	ttttgagaca	aagtctcacc	ctggtgceca	42960
aactggagtg	cagtggcaaa	atcttggtct	actacaacct	ccacctccca	ggttcaagca	43020
attctcctac	ctcagcctcc	cgagttagctg	ggactacagg	catgcaccac	catgcccggc	43080
taatttttgt	attttttagta	gagatggagt	ttctgtatgt	tggccagggt	ggtcttgaac	43140
tcctgatctc	atgatctgcc	cacctcagcc	tcccaaagtg	ctgggattac	aggcgtgagc	43200
caccatgcct	ggccacaaat	ttattttctc	acagtcctag	aggctggaag	tctaaaatca	43260
aggtgtcagc	agatttctatt	tcttctgacg	cctctctcct	tgacttgtag	atgactgcct	43320

tcttgatgtg	tccttacatg	gtctttcctc	tgtgcacgca	catacctggt	atctctgtgc	43380
atgccccaaat	tcccttttct	tataaggaca	tcagtcagat	tggatgaggg	cccaacctga	43440
aggcctcatt	ttaacttaat	cacatcgtaa	aaggccctat	ctccaaggac	tcttagatat	43500
attagaggtt	agggcttcaa	tgtgtgaatt	tgataagggg	aggacataa	ttcagcccat	43560
aatactctca	cttactgtgt	tccagctaaa	ctggctcttct	gcatggtctt	caaacacact	43620
cttgtctcaa	ggcttttgca	ctggctattc	cttctccctg	tgccgctgca	aagaacgatc	43680
atgtttgccg	caatcttgta	gttttaagga	ccttttcata	acctaattgca	catgtcaacc	43740
catggccaga	accctatgta	agatttatcc	ccaatttttt	ttttggcctc	cttgctcctc	43800
tcttttaatt	tgttcccttt	ggcttcctta	agtattaact	ctaacagata	acagctttac	43860
agtttggtt	cccttgtttt	attcaactca	gtttcaggtt	attataatgt	cttcatttcc	43920
gatgtggccg	ccatattgga	tggtgctgaa	tcacccattc	aaaagaaatg	tgttaatgcc	43980
agtttatgtg	ccagtcatcg	ttagtatctg	gaaatacaca	ggaaaatatt	agggtttagga	44040
ttaatgaaga	ctaatagaatt	cagtagtggt	atacacagag	tatcatcaga	gccccaaaaa	44100
ggaacattta	tatgaaagaa	tatcaggaag	gcgtctggaa	agagttggta	ctacagctac	44160
agtttgaaaa	atgagcaact	tagccaggta	tacagagggg	aagagaattt	tctagactct	44220
gttagcatca	tgcatgaaag	tatggaagca	tgaaacagta	tgatacattt	acagaaaagc	44280
gcatgtagag	aagtatgaga	taatggggct	tgattgatag	aaggctagag	aataaaaaatc	44340
atgtgtgcta	agataattta	tcttgaaagg	tccagggagc	attttaaaat	tcttaacaag	44400
ggaatcattt	ggtcggatct	ccaattttaga	acgttttagta	ttccatcatt	gaagacagtg	44460
acatgtaaga	gtgagttctg	gatgaaggaa	gccaggtagg	gagttactgt	agtaatttct	44520
ctatgaagaa	atgaggacta	gaacaagagc	agaggcaaca	caaataataat	ggaaggtacg	44580
gctatatgac	acagtaagga	aattgaatct	atagaattgg	tgctgggttt	aaacatgaga	44640
attgaacgag	aagaaaactc	taaaataaat	cccaggtttc	tgggtttggc	aaagaaagag	44700
atgatgatata	tattcatcat	tagaaggag	agaaacatta	acttgacagc	acattgagag	44760
tagtgaaact	tccgtaagag	ctgtccagtg	aacaggtatt	tttatacatt	ttgtcaaggg	44820
caagaaaatt	tcccattgat	tggggcctat	ttagttgcct	tcttcttctt	gcaagagtac	44880
tatttttctc	aacacacctt	gtaatcttag	gcaaagggaa	gaaggctttt	atttgaggtt	44940
gcttttatat	gagaccaagt	ataactaaaa	agatatagca	tatcctcaac	cccaccagc	45000
ccccattcat	tgcagcacct	cctaaggtgt	agatgtcccc	tgtatcccaa	aaacgtgagt	45060
ggtgactaag	tgtgatgtgg	cacaaacgtt	gaccacacta	aagtgaccac	atagtacttc	45120
gctgctccca	ctgggaaaca	aaacataata	caaataataca	atgcttcaca	gagtagcagg	45180
tgattctttt	tttttttctt	aaagtcagat	ttattgaggt	atagtttaca	ctaaacagtt	45240
tactttttgt	aactttttaag	ttcagaggca	tcttttgacc	tcaaaaacct	agttaaagta	45300
gcaaaggaga	actttttttt	tgttttcatt	tactgatga	ggaagctgat	gattaaagag	45360
gttaaatagac	ttgtcccggg	tcatacttag	tcttgagtaa	gcaagattaa	gtcttctgac	45420
tcttaattct	gctttttcca	agatatcaca	gaggatcttc	cagaacagct	tacttagaaa	45480
ggacataata	tctgttcttc	ataacagttt	tatggtaata	ggaatttaat	cttctaagta	45540
atcaactcag	gctttttccac	ttaccagtg	aattgcagga	ggaaactata	gaacttgaaa	45600
cactatcttc	cacatttctg	tattgatcct	gtttgatggt	ttgtgatatt	aagggaatac	45660
atgactatca	tctagtgttt	caagaccaag	cccttcaaag	tagagtaagc	cacaacataa	45720
aaagtgccta	gttaccttct	tggctctaga	gagtcattaa	atccaacctt	tctcttctgt	45780
ctagctgcct	aggagtggct	tctgttttaa	tcatcatcat	cattattttgt	attagtctgt	45840
tctcgcatg	ctataaagaa	ctacccgaga	ctgggtaatt	tacaaagaaa	agagatttaa	45900
ttgactcaca	gttccacagg	ctgtacaggg	agcatggata	tggaggcatc	aggaaacaca	45960
atcatggtgg	aagggtgaagg	ggaagtaggc	acatcttcac	atggcagagc	aagagagaca	46020
gagtgaaggg	gaaggtaaca	cttttaaaca	accagatctc	agccgggcgt	ggtggctcac	46080
acttgcaatc	ctagcacttt	gggaggccaa	ggtgagtaga	ttgcctgagc	tcaggagtct	46140
gagaccagcc	tgggcagcat	ggtaaaaact	cgtgtctact	aaaatacaaa	aaattagccg	46200
agagcgggtg	cacatacctg	ttatcccagc	tactcgggat	gctgaggcac	aagaattgct	46260
tgaacccagg	aggcagaggt	tgcagtgagt	tgacattgtg	ctactgcact	ccagcctggg	46320
taacagggtg	agactctctg	tttccaaaat	atatatacac	acacacacac	atacacacac	46380
acacacacac	acacacatac	atatatttat	ttatttattt	atttatttat	ttatttgtgt	46440
gtgtgtgtgt	gtgtgtgtgt	gtgtgtatgt	gtatctgtat	gtgtatgtgt	atatatataa	46500
acaaccagat	ctcgtgagaa	ctctataatg	agaccgcacc	agggagatgg	tgctaaacta	46560
ttagaaacca	cccccatgat	tgaatcacct	cccgccaggt	cccacctcca	acaccgcagg	46620
ttacaattca	acatgagatt	tgagtgggga	cacagagcca	aaccatacca	ctattttatc	46680
atttctatta	agagttccct	gcatttcaat	ctggccctaga	atacctgctg	agatcatatt	46740

cttatgggta	ttaagtata	gtgtcataaa	ttaccatctg	caaaatacta	tttcagaagc	46800
tgtaattctc	tgtaaggttc	tctgttatat	tgctacactc	tgagatcttt	tagaaagtta	46860
aatattatat	atgtatactt	ctgcattaat	gactttatct	tgattcttgt	ggatctcag	46920
gaatgtaata	tgcaaagttt	gtatagatgt	ttttctttag	tgtaatgaat	tattaggata	46980
tgactctttt	gtaaaagggg	gaaagaacag	taatttgaat	ccctgcagag	atagcaatgt	47040
atgtggagac	aatgtgaaat	gttttatctt	tatctactaa	aaattccagg	ttgaaaagaa	47100
taaaatcacc	tcctctctct	aaatgcttta	ctctggtagt	attattatgt	aattattcac	47160
aaaaaggtgt	gttcttgtta	cacaatcact	accttctcct	tggagatttc	aaaaataaat	47220
agatgagaaa	ttatgtccct	caaaaaagac	cacaaaagtt	tatccagaaa	actttccctg	47280
tattgatttt	tctttaataa	atgaagctac	atgttttcat	ttttaagaaa	tataaacct	47340
taacttggtc	ttctctcttg	atacagttta	ggaggtcttg	catgcattct	ctaaccctac	47400
ctccttcccc	tttctccaac	tacactgtcc	tctttcagtt	cactgaacac	tccaagctca	47460
ttcatgcctc	agggcctttg	catatccaga	tatctccttc	tgctcactcc	ttattaccac	47520
catggtccat	ttgaactgga	tcctcccagt	ttttctctta	tcacttcacc	ctattcattt	47580
ccttattaca	atttacaaaa	acaaaaaagt	gttacttctt	atctctcttg	ccagctctat	47640
cagagctgct	accacatctg	tggtggatgt	catgtataac	cagcggctag	ttccatgcct	47700
ggtacatcat	tgcttaatat	ctttttgttg	aatgaatgaa	tgaatggatg	aatgacaaaa	47760
attcctaate	aaattttctg	ttgtacctt	ttatacttac	aacttaatat	tacatcctta	47820
tactctaaac	tcatacatac	ttctataaat	aggagaacct	ttacctacag	aaatagcaca	47880
ctaagattgt	aagcaggaga	aagataaact	aagttttctg	aatttagaat	ctattctggg	47940
cactttctaa	tgagttccag	aatctatgtt	cccatatctt	tgggaagcaa	ataattgact	48000
gttaatagct	tttcaaatat	gtcatcagaa	tggcagatga	ggcctgaaat	tctcaatgga	48060
ttgacaaaaa	gcccctgtcc	tcttggtaga	atgaaatata	gtacttgtaa	cacttcctta	48120
cttcccccaa	attacttatt	ctttaagtta	cagaaaagga	attccacaaa	ctacaatgaa	48180
aactcaaagg	aagtaattac	tttaggtaat	atacaagtta	atactatgtc	ttttgtttgg	48240
tttttcttca	gacagaaaat	aacccaaact	ttttttttta	ttcattcttg	aatttttagaa	48300
accattgtta	aagtattaat	catttctgag	ccatccgtag	attgagttta	ttcatccttt	48360
ctttaagttc	ctctcaacaa	acttagccat	gttttatgat	gtataaaaca	tgctaaaata	48420
tttttaatct	aaacccaaat	ggattttggt	caggatagct	gaccctgagc	agtcagtata	48480
tgacagggag	acccaaacaa	cccaaccagt	tctgatttta	cacaagttcc	ttgccttctc	48540
ctttaacata	tatcggaatt	gctaccttag	atgggtcagt	gttatgggaa	gttgacagac	48600
agaaaatgca	gtatttatatt	aggtcaaagg	ttgacaaact	tttctgttaa	agtgaatatt	48660
tcagactttg	tgagacatgt	actcgtgtgc	acaatgacac	aactaagcca	tcttagaggg	48720
aaagcaatca	cagacgatat	ataggtgaat	atgcataagc	aggtgcctta	cttcaggctg	48780
ctgtcacaaa	gtaccataga	ctgggtggct	tacaaacata	tttctcactg	ttctggaagc	48840
tgaggagtcc	taggtcagag	tgtctctctt	ctcagttaca	gactgctgtc	ttcttgtatc	48900
ctcacatggc	aagaagagga	caagagagct	ctctggagtc	cctttcatga	ggacattaat	48960
cccattcatg	agggctaaaa	cctcataccc	taatcacctc	ccaaaggctc	taccacctaa	49020
taagatcaca	ctgggtgcta	aaatttcaac	atatgaattt	tgggaagaac	acaaacattc	49080
agtcactgct	agtggtgctat	aataaaactt	gattttacaaa	agtacactgt	aggccagaca	49140
tggtttgcag	accatagtcc	gacaaccttt	gaattagggtg	atcactacaa	catgtaaatg	49200
aatatgcatt	gtgtcttagt	tcaggctgct	ataacaaagt	accatagaca	tgggtggttta	49260
caaatatggt	tctcacagtt	ctggaaaacta	gggagtctta	agtcagagag	tccctcttcc	49320
cagatataga	ctattgtctt	tttcttgtat	cctcacatgg	caaaaagagg	ataagagcac	49380
gatacctaga	tgtatttgtg	atggggagtc	agccatttta	acattttatta	aacacccact	49440
aaactccaag	gtttccagac	agtgtcataa	ataagcttca	caactgatct	gtattcagta	49500
gatgtgaaaa	ttgaaactgc	ctgggttatta	atctgtgtgg	ccaggccatg	aaccattctt	49560
cttcogctcag	gttcagccct	taagcacaca	tgccacagag	tcaaaaacaa	cctagggtttg	49620
aatcttgctc	agctattttac	tgatgggtgtg	ctgtatggaa	aattactaga	cctctgtgta	49680
tctcagaatc	ttccccatc	tcatggagtg	gctaggagga	ttaagaaata	aaccacaaat	49740
agcactcgct	tagaacagtg	ctctctgctc	aacgcagtgtg	gctagctttg	accacaattc	49800
tgagacactc	tcaggttcca	gagagttctt	tcagaagttc	cacaaatggt	tgatttaaat	49860
gctgctaaaa	aatattttttc	actacttaaa	ataccttaat	aaaaagaaac	atatattcat	49920
gcaatgtata	ccaaattgaa	cacatattct	cattctatat	gttaacttgt	gttgtcagtt	49980
aactttttaca	cagacattga	agcaaagctt	ttcctgtttc	tcctgtttat	ttaaaaattt	50040
tgagagaaat	tcaaggtaag	ctgataaaaa	taattcttac	cattgtaacc	acttagctgt	50100
gtgaatcaga	attgtcttga	cactgtgcag	ctgaagtaaa	aacaatctaa	aattggaggc	50160

tgagggtggac	ataagatttct	catctctaat	attgtgttaa	tcagaaaaac	tttattattc	50220
ccatttgattg	gcttttacaat	aagtaaatgt	tataaatcgg	ttttaaagcc	tttatatgaa	50280
aatgactcac	tttttctgtt	ttatatattt	aaggtttcat	gtaaattttc	atttgagact	50340
aaaaaagaca	tttttcagca	gaaacattta	actagtactt	aactagtcaa	gatctgcctc	50400
tttagattgg	ggcttttttt	agatcaagac	ttgattctta	cgtatctttt	ttaaaaatta	50460
gactctgata	attaggtcaa	gacaaagagt	tacccaagca	gagttcttca	ttctccttta	50520
ctctcctacc	cacatcatta	tgtcctagt	gccttaatag	atattttctc	cttagatctt	50580
tataataatc	ctctgagttt	gccaggcagg	tgatattagt	ctcataaatg	aagaagggtga	50640
atgagactca	aagaatataa	atgactccca	agggcatatg	actaaacaag	tggtagggtc	50700
aagactcaaa	tcagaaggct	tctgactact	aatcgagagt	ttttcccacc	cgttttgatg	50760
tcaaagatgg	ctgagatttt	ggggaggggc	tttgggagtt	cagagggtgac	ccttttagcca	50820
ctgctgaagc	tgatagagat	gcaagatcag	taaacatatc	ttattctttg	tttgtttttc	50880
cataggttgg	ctaggctttc	tagtgattaa	aaaaagcaat	gtagacactt	gtaaagtgtt	50940
ttaatttatt	gtcctggact	ctgtctcact	tggtgcaaga	gtcatttgac	atgacgcctt	51000
gctaagaaat	ccacacgtag	gtctcaaatt	cagtccctgg	tgatttccta	gggtctatgc	51060
tccatgaggg	caggacagct	actagatatt	tgtgtccaca	aacatctaga	ggcatccaat	51120
tcttatctgt	tcataaatat	atgatagaat	caaccatcat	tctatacatt	tttcttttaga	51180
tcttttttcc	ttttgctacc	attgcttttt	ggaccattat	tcgaggcata	tcataaactt	51240
ccttggtaac	tcttggcatt	ttggctcctgc	ctccctcaga	tttttttctg	cataatctca	51300
aagcatccag	caatgccttc	ccagcgcttc	tcagaacaag	gccagatta	tcctcctggg	51360
attcaagtgt	cttcatgata	tgggcagccc	ttatgaatac	accttcgctc	tggtctcatc	51420
accgtccctg	cagtcctctc	tctatatggg	acatgctcat	tgctgctttg	tgtctctgcc	51480
ggtgcttgct	tgtttgccag	ctttcatttc	tctacacaga	tccaaattgt	acccatgatt	51540
tctacctaa	ttcaactcta	attttctatg	atccctgccc	cagtaatttt	agcccataag	51600
aatttttata	gcacaaattt	tgtacttaat	gacacttgta	ttatttcatg	ggttagtttag	51660
tgcaatctct	atgaggctgt	aggcaatcaa	gtaagatatt	taaattgtac	ccacattgtc	51720
ctaccttccc	acactgtaga	cacctactaa	attggagtaa	tgtgtaataa	aataatttat	51780
agattttaagt	aattgaaatc	atcccaaggc	acagagagaa	caaacaaaca	tattcctgag	51840
acatgtctaa	ttcatgtgcc	atgggttatct	tgagataaatt	ttccactgta	cttttaataa	51900
aagagacacc	taaattattt	catagtttgc	ttttgttttt	cctccttgag	cattgccatg	51960
gttattgata	tttattaaat	caaactctgcc	actgaagcat	atataaccac	tcaagaatga	52020
attacagcaa	atattttaat	gcctgcctgc	ctttgaattg	gttaatcaga	atgagtgatg	52080
catttagctgg	ttcaactcct	ttcacctgga	aagatggcta	tcgattccct	ttattgtgat	52140
ttaaaagatt	tgaggaaagt	ctaaaagcat	ttcaaaagat	ttcaataagt	aagacataat	52200
tctgcttttc	ataaccacta	aatgaaaaaa	aaaactaaat	acaaaaaaga	ttcttcgagt	52260
aaaattctgt	cattctccac	tttttattgt	gttaaaaaaa	tcaactataa	tatgagtga	52320
agtcaagttc	tgtggtatg	tatgaaatga	gaagagaggt	gctgtagggt	attaataaca	52380
ggggatgttt	tgtactgtt	ctggaagatg	aatatgcatt	tttgtgttgg	agccagtcca	52440
taagtcaaat	tccttttaaa	caggcagagg	ccagccttgt	tctggctgca	gcctgcacgg	52500
ccagaaaaac	agaggaagaa	gcgccttcca	ccagcatgaa	atgttatcca	ctttgatatg	52560
taaacattct	tccttcacct	gaagttgatg	tcagggtaac	taaaacacaa	gaacttggtt	52620
gactgagcag	aagcaatctg	ttgtattctt	ctgtttttca	aaaccagaga	taatcaagga	52680
ctgttatgtc	agatgctagc	tgacctaaact	tttgagtgga	aaacgaacca	ggaatctgag	52740
ataactggat	agtctccgca	tattttttaa	aaatcagcat	gtctcttgaa	actgctcaga	52800
cttagctgat	ttttgtagtt	gttggtgttc	tctttatagt	tttttttctt	ttttctctgt	52860
attccagact	cctggcattt	aatctatttg	gtgggaataa	atgacgtaaa	ttgtactcat	52920
atttgcaaaa	agcccaaaaa	agatgttaag	gctgttaaca	acagacgtct	acgctacagt	52980
tgaaatgggc	taggtgaatt	gagacagaat	tctatgaaca	ttttatgaag	ctttccttaa	53040
attttctaatt	gaaaattgct	actgtttgtg	ttactgttga	ttcatttcat	ttaagtcttg	53100
gtctttagta	ttctattgat	accccatctt	tggggatgaa	aaacaatgtt	aaatgcgcac	53160
atttggttag	aaaatgggct	gggtgggaga	cgggaaggctt	tggcgcgcac	cctagggcat	53220
tctgtgcat	tgcatgggtc	agcatttctg	tatctaaaca	tcgaaaaagt	acaataaaaa	53280
tacagtatta	taatctggga	ccactatcat	acacgcagtc	tttcttgacc	aaaacatcct	53340
tatgcctgct	gtggctgtgc	tgagaaggag	gagcactcgt	cctctccaag	cacatccaat	53400
ttgcctcagt	cctcatgact	cccgcctgt	taccagaact	gagctcattt	gttattgaag	53460
ttgcttttct	tatacccagc	ccagttttcc	attgatgctt	ccgcttatte	tatgtaggta	53520
ttttcattta	tcacacaata	tccctagtct	aagacttcat	ttgaggaaag	aaaaaaaaaa	53580

aaacctctgc	tgctaaaaat	aatttgaaaa	ctcctagaca	ataggacctt	tcaaatccct	53640
tacaattcta	acaaccagtg	aattcatgct	tcacagccat	tcagatctat	acgtatgaaa	53700
tacaagacat	atgtgttcaa	ctttccttca	tcgcctcctt	taaactttct	tttttctttt	53760
ttgagtcagt	ccctgcagga	acagaccaag	tgagcccat	aagagaacag	ttcattccca	53820
cctgctacct	cgagccagcc	aacaatctca	gcctcaccac	tccattcttg	attatgtaga	53880
accattccaa	tcctgagtg	caggatttgc	aaagacagct	gttgggctcc	acaaacattt	53940
ggaggagggg	aaaatgtgag	gttgggtgct	acattctcct	acttcttttt	actgaaagga	54000
acagctgcga	tcttcacatg	taagatgaag	taaacaaaag	ctgacaatgc	ccagcaccat	54060
tcagcagtaa	gcattcaa	ggatttttcc	tcaccgcgtt	tgcaggcccg	gcacagtctc	54120
agttccccac	agcacagaga	ggaagcaagg	tctttgcatg	ccctgttcac	ttggccaaac	54180
attgccctag	atgtgcaatt	caaccatata	aaagcaagcg	taattcaaga	gccctgactc	54240
tttcaccatt	tcattgatgg	ttattactcg	cacacggcat	tgtcagggtc	cagcaactct	54300
gtgtgcagca	ggcagaaatg	cagtgtttat	ctctgacagg	caaacattct	taggctcatc	54360
ggcatgagta	tccacgctga	actggctatc	ggggaagtag	atccctgcat	gggaaagtca	54420
aggtatgttt	agagggactc	gatgattcaa	ccccattggc	tgggttcattc	cttttgtttc	54480
ctctgccttt	ttatttgctt	acacagaaaa	cagagcattc	atttatttct	tttccctctc	54540
tcattctctat	taaccactag	ggccatctgc	ccatctgaaa	ctgtctttgg	ctgcatgggt	54600
gtgaattcaag	gtgacagtga	aaatgaagaa	gtggtgattg	tccctgcatg	ttttctctga	54660
agggtttaact	aaaaaaaaaa	aaaaaaaaaa	cctttgtgtc	tgtttcgagt	tctccagttg	54720
aaatactgta	ctcattgaac	tgaagaaat	aaaacctgca	agtaggcact	gtgctaattg	54780
aatagaaatg	tgttagacag	gggcactatt	tcttaaata	gcttgaatta	agcaagttct	54840
tttaaaaagt	gggtgggact	tttgatgttt	tacatagtta	tattttcaat	ttcttgtgct	54900
cagtttaaaa	ctcaagattc	tttgtttctg	tgtgtgtcat	tagggcaggt	gttggatgac	54960
aagtaaatgc	actgaaaaat	gaaaaaaaaa	gatttgtgcc	ctaacctcca	tgaatttggt	55020
gacttaatat	atccatacag	atctgacttt	taatcaaagg	tgctcacagg	tggggtaagg	55080
gataaggagg	aatttgtcta	caggatcctt	ttatcctaag	ttgccttaca	acatccaatt	55140
gtgttaccgt	tttttttttt	tttttttaca	acccattgct	aggctaagaa	gtattgattc	55200
catctagtta	aacatgtcga	gtgagaggaa	gtgatcaatg	gattacttct	tcaaaacatt	55260
tatccccctt	agtggaatcc	tctgattttt	ataacattaa	agagccaggt	ataggagttg	55320
ggagaagaat	ttaaaatttg	aaatgtcttc	ttttttcaac	tctgttcatg	aaaactctag	55380
ttaatgcatg	tgatttccctg	ggtctccctc	tctacttccc	tccattatca	ccaccttttg	55440
ttgctgctgg	ggctgtgggt	gccctgaagg	agcatgagat	ggccttcctc	agatatctgg	55500
gttttaaaat	cagttcgtat	ctcttaagt	aagtgggtag	ggccaaaaat	gactcactgc	55560
ccagtgggtg	ctggaaacat	tatcagcaaa	gacattcacc	tagggagaaa	ataaacacag	55620
aattctcata	tgggcccac	tttccaacca	tctcctggac	tttggtagtc	ttttctgagc	55680
cagatatctc	tctaaagtca	cttgctgtca	gacctttttg	tctcatattt	aggaatggct	55740
gaagttcttt	ataaatccca	gatgaaacag	gaggaaaact	actttgaaat	gatcatttcc	55800
atgatctcta	aaatgcaaca	aaccgtattt	cttaagatta	acggatgcga	gcctatgaca	55860
ggttcaatgt	ggggaacaact	caagggaatt	tgatgaccga	attattaaaa	ggcattcatt	55920
acatcgagct	ttcacctgaa	gaggggggtg	ccccagtag	tgcttctgca	gcagaattgc	55980
ttagaaactg	cagaacatcc	acaaggcaag	caccccaggc	cattgtgtct	gactgtcttt	56040
caaatagagg	aatggctagt	tgccatttgc	tgagggcatc	tctgcaactg	agaactgtgt	56100
gcataatagg	atgatatcgc	cgagactcac	aagtatgcaa	gatagaaact	aggtgcattt	56160
ttttcagatt	aggaaactga	gaatggaaga	taaactgaga	aggggagcag	gggaggatag	56220
ggagagattg	ggcaacggtt	aagaagttac	agttaaatag	gaataaatcc	tgggtgctcta	56280
ttgcacagca	gggtgcctgt	ggttgacaac	attgcattgt	ctatttcaaa	gtagatagaa	56340
gagaggcttt	tgaatgttct	caccacaagg	atatgataaa	tgtttgaggt	aatggatatg	56400
ctaaatactc	tgggttgatt	attacatagg	gtatgccagt	ttcaaagcat	cacattttac	56460
cccataaata	tgtacaacta	tcatgtgtca	attaaaaata	aaattaaaaa	aaattttattg	56520
ataaaaagaat	aaaaaatagc	atgcttttgg	ccactctatt	tgataggcat	catttaaaaa	56580
acataagact	ataaggctgg	gcatgggtgg	acatgcacct	gtactccag	ctatttagga	56640
ggccgagaca	agagggctgc	ttgagccag	gagttcgaga	tcagcctgag	caacacagtg	56700
agaccctcat	ctttaaaaaa	tatacgtagt	atagatgatg	taaaaggacc	acctttccaa	56760
atgagtcaat	ttcttcctta	atttaataca	ttcctaggta	gtaagttttt	agagagctaa	56820
actaatcctt	tgctatgtct	taggttacca	tttataagtg	ttcttatggg	ggtagcttc	56880
attttatgta	ctaaacactt	atgtgaaagg	atcgttgcc	ttttccatgt	gctaatttgt	56940
atagagagtt	tacgtattgt	gggaatttaa	tttattcctg	catttttatcc	aggaaaaatag	57000

agccagatgc	ttttggacac	ttgttatttg	ctttaaataa	gatatcaggt	taagataaga	57060
aaaatatatt	gattggatat	tgcgtcttcc	tctggagaac	gtaaaacctt	tcacgtccta	57120
catctcatca	taccttacaa	ctttagaaca	gactctaata	aaaggaaaat	gttttaactg	57180
tccctttact	tatagagggc	agggatggga	aagtgcactc	aattatacta	acagagctct	57240
caattaatct	aaattcaaag	cgaaggctcc	tgttggtgat	cagggaccct	gaataaacat	57300
gctttctagg	agacttcacc	gccaggttcc	aagagaggtc	acagtactcc	tgcactcctg	57360
atggcagacc	cttggattcc	attgcaggca	gtgacacacc	aagagtaaga	ggagctggct	57420
tcagccctgt	ccacgtgtgt	ctgctggctc	gcccttctgt	ctggcatctc	cacgcccctc	57480
ctcttccgga	ctcccttgca	tgaccttcca	aacagaatga	gctgttcttc	caaatatgac	57540
cctaactcat	tcaacagctg	gaggcaagag	caaactagag	ctcatgcaaa	gggtatttagc	57600
attgagtctt	ttttttcccc	ctctttctct	cagactaata	gatatttgga	aaattcatct	57660
aaaaaccttt	tttaaaaaaa	tttcattcat	aaaaatagcc	aaggggtttc	tcagagagtt	57720
tcctttttagc	aagtcttttg	gaaggaataa	atgtctactt	tattatTTTT	ccttccctgtg	57780
cctgacctcg	gagaggatta	gagggctctg	gcaaggagag	gagcctcaca	cccagccacc	57840
cacacttttc	cttctgacga	gacccaccgc	catgccatgc	tctgtacaag	ttctctggag	57900
gaacataaga	gccaccttat	gtgtgagggg	ataagaccat	gctttgaaga	gccagacttt	57960
ctccttttac	ttgctcttga	aattgttttc	actctgatct	gcaagtcaaa	gaaatgatct	58020
attatacatg	tagggacctc	aaaatctggt	tgactctgtg	caaataaggt	acagtcctctg	58080
ccttcttctc	atagttttct	tatcactagg	ggacttgaaa	aggatttagt	tcaacaactg	58140
agtcagcatg	agctcacaca	aaacaaatcg	tttcacacca	atgtcaattt	ctttctttct	58200
tccccccgc	ccccactttt	ttattttaa	aattcgggtc	gggaaatccc	acatgcttag	58260
tatcattttg	tcagcaaggt	acatgacaac	tctggtcaca	atagaaagtc	gtttagtga	58320
ttaatgtcaa	ctctggaaaa	agtggcta	gtgtcttggg	gagtttggtc	cttgccctgta	58380
cacctgcctg	aagatcacaa	gagtaagaag	gacaggtaac	acacactgaa	tgacaggatc	58440
agaggtttagc	aatatctcag	aagcctgcca	tatgagccaa	acccaataca	aaacaattta	58500
gcaatattaa	gtaattatca	cattttgtac	ttcaataaaa	aatttaatat	catgactttg	58560
cggtaggaaa	ggccaagttt	aatgttgggt	aaaaatagtt	tggagattat	atttgtctgt	58620
cttcaatatg	atgtttcttt	caaaatatcc	caaataatct	gaattaagag	tagaaataat	58680
atctaccatt	tattgagtac	ctactatctg	ctaaaataac	aaatttataa	tgaagggtgta	58740
actattccca	ttttacagat	gaaaaaaatg	gaggagggtta	agtaaccagc	actaagtcaa	58800
aatggctagc	aaagatcaaa	accaacatgt	tagccaatgt	taggcagttc	aagtcctttc	58860
ctctgtgcct	gaaatgaaag	aaattttcca	ggaattttgc	attggttatt	catatcaagt	58920
ataaaaaatg	ttattcattt	caatgaacca	aaattaagtc	aagacactta	aggactgtct	58980
agaggaaaat	gaccaggata	ggaaagagtc	tggaaagccat	gcaagaaaag	acacagatgg	59040
taaatattta	acatgaaaaa	tagaagattt	gtgtgggata	taggagatac	cttcaaataa	59100
tgaagacctg	tgggtcaactg	gggcaaatat	tttaacccca	aataagttct	tcaacaataa	59160
cagtttcatt	acaaataagg	gaagagaaa	tgcccaaaa	gagcattctc	agtcactaga	59220
tgcagaatca	gaaagccacc	tgccagggct	gttattgagt	gaaattctga	ctttgaaaac	59280
atttggccta	tacgagggat	tcttaatctg	atatccatgg	aagaacttta	ggtaaagtct	59340
ttgaatccct	ggaaattata	tgaaaaattg	tatatgtgtt	tttttttctt	gggaaatggt	59400
ggatatatatt	cttcaaatac	tcaaagcaat	tctacaatat	tgggtggggca	gtgaaaggaa	59460
atcacttcca	attctacaat	tctgttttgt	aaaagtagtc	ttacccttca	cagagggtgca	59520
cccaagagaa	ctgtgtgatt	gatttaatat	taggggtgaa	tgaacataaa	caattgaaga	59580
aaacttcaag	gttttttagcc	ttgtaactaa	gatgttcata	caatttttaa	aaatctttaa	59640
taaaagagaa	gcaaatttag	tggagataaa	ttaagtagaa	ataaataggc	aaactgaagc	59700
ctgtctaaga	ttccagtact	gagagtactg	agtacgtaat	tcaaataattc	ttttacatca	59760
tggcagaaaa	atgctgaaat	ctagggatat	atgctgacta	gtaactgagt	cttatataaa	59820
taattttttt	aaagccactt	gaactttaga	accataaaa	gttataaac	taactgttct	59880
agagactact	tacttcagtc	tcctaattgt	acaactgaag	aaatcatgtc	tcagaaaaaac	59940
taagagacat	attctggatt	ctggggcctg	gttcctgatt	cacgtctctg	tctgcaaaat	60000
taaggaaaaa	aaattctaaa	acattcaaat	ctggaataaa	cctatgcatt	tttcaagaag	60060
aaaatatata	tataaaaact	agtcttaact	acataataa	cacaaagggtc	cactttgtta	60120
tggatataagg	caagaccgta	aggaggtctt	atgcctcctt	atgaggcata	agattgcccc	60180
ttacgagttt	taaagtatga	attccacacg	tcagcatgct	ctgggatgtt	ttcacagtat	60240
ttttaacatt	ggtcctcata	gtcttaattt	acctctggaa	atttccatgg	atgattaaac	60300
tatgaagaac	aaagaagcac	atggctgtgt	tatttagagt	ttagtgaatt	aggtctgcaa	60360
gtctgttggt	ttccttttag	atgttgtctt	gtccgtttct	aagatcagag	ggagaccagc	60420

tccaggagt	ctcatgaat	catcagtggt	cttccatacc	atctgatgaa	aagattcatt	60480
ctgtgtctca	aaaggatatt	ccagatccag	ttctgagtca	gcaggctctt	ggtgtatata	60540
tatatatata	tatatatata	taaatttttc	cactgcttta	tttttttaaa	ttcatctgac	60600
aagggtcaagg	tgggattgag	acaagaaaaa	tttggaacta	gtcccatttg	agacttattt	60660
ccttaaaaaa	ggaactgttt	tttaataatc	tgaaagttta	cataattttg	acatgcaagt	60720
tatatacgtg	tgtgtgtacg	tttgcattgt	tgtgtgtatg	ttcatttttt	ttaaagagac	60780
tcaaaactaaa	taaaattttg	attgggggtg	ttgctgaaag	gactatagtg	tcagctgtta	60840
taacttcagc	tttaaacact	aaaccaaacc	atgggctaca	tgttccaatt	catactgaag	60900
ctttataata	tatggcctta	gagtagaagt	ataatgatct	cttgggagag	gcaagatcca	60960
attaaaattc	agtttgctgt	cttttggaag	gacataagca	gttatatatc	ctttgagacg	61020
gtcttaagaa	atacacacct	gagctttaaa	tggccactca	tttgactgtg	aagttgaatt	61080
tcaattcatc	tgggagtcag	agcacaagaa	agaattcaaa	taacaacact	ctgatatttc	61140
ctggtgtgtt	accagggaga	aaagagctcc	tggaaaatga	acgccttaca	catttgcaga	61200
tattaccaac	cacttataaa	aacaaggcta	ttgttatgca	taaaagtcac	tccttttagg	61260
ggaagcctaa	gagtgaattg	aaatgtggct	gacatttcta	ccacaagata	aaatgttttt	61320
ttaatcatcat	gtttaagttc	tcttagttaa	aaaagagaaa	agggaaaaaa	agaagaagaa	61380
agaaaaatat	ctataatcca	gtattcagaa	gcaattccag	acacttcacc	catgaaataa	61440
ctcactggaa	gacattacat	ttctaaacac	aaaagctatt	agcagccttt	tctaattctc	61500
ttttagttca	ataagggaat	tattgacctg	attttgcaat	cccacatggt	tttaaaagac	61560
aaaaaacata	gtacattgaa	cagaaaacat	acgaatgctt	tctatttaat	ttattagttc	61620
atgactaaga	tgaaacactc	caacatatat	aataacctcc	ccacccccac	ttcactctga	61680
ggttcttttg	gttacttctt	ttttacaaca	aaggtttgat	gtattcttta	aaatataaaa	61740
agaaaaagcc	actatattgc	ctcagaacta	ctccatctca	ctgcctcact	ttaaattctg	61800
attgactgta	atgagaccac	agacagattg	atgaaataaa	tttagatact	aaatagcatt	61860
gtacttgggg	tgatttagtt	atatagctca	tttatttctt	caacaaattt	gttgaacagc	61920
agtattagtt	aaggcaatgc	aagctgatgt	cataaataaa	cccccaaacc	acaatggcct	61980
aaaaccttaa	aggtgcaatt	tttattcatg	gaagcagggc	aatgtaagta	actacaggat	62040
tcaggcagcc	agaattcttt	catcctgtgt	ttccatcatc	ttctagagct	tcaaagtctt	62100
ctgcatttat	ccaagataag	agaaaagaaa	tttgagaagg	tgtacctgtt	tttagccatc	62160
ttctgctcac	ttgctcttgg	aattaacaaa	tcacacaacc	atacctaagt	gcaaagtggg	62220
tgagaaatgt	atttcctgat	gggacaacca	ccttccagtg	ataacttcac	actctgaaag	62280
ggctcagctg	caacacctgt	aataatactg	tgctggacat	tgtggaattt	tctaaaagaa	62340
acaaaactgg	gaccttgtct	tccacgagca	tgcacgttag	caattttttg	caaggaattt	62400
attcccttac	caataataat	agttaatata	tatataaagt	ttgttatgta	tcaggctcat	62460
tattggacca	gaggctgtgt	gggtgggtatt	tcaggactca	aaccctggta	tctgcgctgt	62520
ccaaattcat	gctcttgcc	cctgcctctc	gtagacttct	aatcacttaa	ggcaagagac	62580
tcaagtctag	ttctcttaga	agttcctacc	acagggcaga	gcccacacca	gacagtgaag	62640
gaatgtggat	tataactaac	aaaaccctag	gatcgattgt	ataggttaact	gttggcaata	62700
aattagagct	taattccaac	tcataaaaag	ctgtactcca	aaatacaatt	caccataaat	62760
gaaagctttt	caaagatatg	agttgcctat	actataaata	ttgatttttt	ttcatctgag	62820
tcaattgaga	tgcaaatgct	aatttgagta	gatgagcata	tgagcattag	tggaaaaact	62880
cacctaaaaa	ggtacaagag	agagcaagat	gcccagata	gattaacaca	acactttaac	62940
cagaatgttc	tatcattttc	tttctgcaca	tacaccttct	aacttgcaaa	tctgtcttgc	63000
ttcacatgat	ctcttcccat	ctaatttgat	gggtttttct	ctgaaagaaa	tgaagggagg	63060
attcctccag	ttcttgtttt	ctatggtaat	tatcctaagt	tttaggggaa	gaatttttaa	63120
agaggaattc	taggcacttc	tcaacttgga	gcagaataga	gatgtattcc	agtaagggaat	63180
atagttcatg	ggcataagtg	acttgaatat	gaggtagaat	tgggggtaaa	taacctatga	63240
aatgtataga	tgatattcta	tcagacaaga	gatattacct	atagttttac	aaaagaaata	63300
aacttttagc	taggcctttt	agaaacatgt	aaaattaact	gagttttacca	agtatagaaa	63360
aaataggaaa	ttgtcattta	gaagggcatg	atctattcag	ctagccaacc	aagaaatatg	63420
tcgagtgtc	cgatgcaagg	taggggtatga	agagcagtg	ggagaagggg	gcagtgaaaa	63480
gtgcaagaca	acacctattc	ccatataggt	cagcagctaa	gagcaacaac	aaaagagaa	63540
aatgggcatg	tacagtgcac	ccacctgtac	caggtaacat	gccaggtgaa	ttattcaaat	63600
tatctcattt	ggcactaatg	catgtaaaag	acatagcaag	gtgcctgtca	cagaaagaat	63660
gtacaataag	tgatagctgt	gattttaaag	ccagttttat	gtggaggtta	ttatctgttt	63720
tcaaattaaa	gaaagtgagg	catgggtgagg	ctatgtgatg	ctataaactg	aatgttttta	63780
tccccacaaa	attttatatgt	tggaaacctaa	tcacgaaagt	aatcgtgagg	ccccgtaaa	63840

gtagggtcctt	tggggggttga	ttaggtcatg	aaaactccac	cttcatgaat	gctgttataa	63900
taataataat	tagtactcctt	ataagagagg	actgggggag	ctcatttgct	ccttctacta	63960
tgtgaggatg	tagcaacaaa	gtaccatcctt	tgaagcagag	agtgagctct	catcagacat	64020
tgaatctgtc	agtacattga	tcttggaactt	cccagcctcc	aggaccgtaa	gcaataaatt	64080
tctgttgttt	ataaattatc	ccatctgagg	tattttctta	cagtaggcta	agatagatga	64140
tatatccaaa	gccccttagc	tggagaaacc	agacatacac	gcatggaaag	ttcaataaca	64200
atgagattct	ttgtgaaagt	tgctctcctg	gcagttctat	tttactagta	gaatattcat	64260
cttagttcat	gggttggttat	tcttcaatct	ggctgctgag	tgccctttgg	gtgtttatga	64320
ttttaactgc	ctgcccctgg	ttctagttgc	ctgggttagg	caatgagggt	attttgtgca	64380
aattgtgtcc	tgagtgccta	tgctgcagct	ccccatgagt	cttccattct	aattctaata	64440
aacttccagc	tatctatcctt	aagcagagta	ccttttagga	caggggtgata	gggggagcct	64500
agaggtcaca	tgcgaggcct	cccatctgtg	gagggttagt	tggagagagc	tgacaatgag	64560
atgattcctg	tgcagcagta	gtcatgaacc	tggggcagga	atgagagcac	catgctatct	64620
cccaggggccc	agagagtgtg	gccctgagag	acagatcagt	gaaatctcta	aagagcaatg	64680
cgccagattg	atgagattat	cttgggggta	cttgctagtc	tctttggcctt	cggaggggcg	64740
tggagggagg	ggaacagata	ggctcagatc	ctctctgccc	ttgaggctgg	tcaaacatat	64800
tgcaggtttg	tagagaagtg	tcttctcctt	gtacttgtac	agatgatttg	ctaaccggag	64860
ctgaaactgt	cctattcccc	tccattccag	tgactcaagt	gtcctcagag	ctaattccagg	64920
taactagagc	caggggagcag	cagttaaaat	cataaacacc	caaaggggaa	ccagcagcca	64980
gattgaggaa	taacaacaac	ccatgcccc	agatgaacat	tctactagta	aaatagaact	65040
tccagaagaa	acagatgaca	actttaacaa	agaatcaaaa	gtatacttac	aaaaattgaa	65100
aaatagcatt	aaaataactt	tccagcattc	aaaaacatgg	cttttcaatt	aaaaacatca	65160
attcagttaa	ggaaaggatg	gcctaggatg	agacagactc	acttgcaata	taagacatta	65220
tagggtaaat	accaaataag	tctgtttgat	tctcaggtgg	aattgaccat	tagactcacc	65280
tgttaaaaac	acagacttca	acttaccag	ccctaataaa	tcaggaactc	tgggaagccga	65340
gccaatgaaa	gtgcattttg	gttggaagtg	gccactgggt	ttgggactg	gttatggggg	65400
ctgtggaaac	tggcagtaca	tgttgaatga	gttatcaggg	tgagagatca	ctgggtctgc	65460
agggatggtg	gtaaggaccg	cgggagagag	atgagaactg	aaatgagcat	gagaggtggg	65520
tagagtttat	tgatagtga	ctaaaaatat	gaaacaagga	ttgatgaatg	ttttgtctgc	65580
atgatcccaa	gttttcacca	gatttagaca	caaatacttg	tcacaccgt	agatcaaata	65640
gcaagtctaa	aattttttta	agtttagctt	taaataatat	aatacacatc	agataaataa	65700
gaagttgaag	tatcgcgatt	ttgcaaagt	ttaggaagct	tgtgttcac	cggttcacat	65760
ttccttcaact	ctatgtgtgc	atgtttgaaa	ctgaaatata	caagttaaat	ctttagtctt	65820
acttttttaa	ccactgacaa	tgatgatggt	ccatttatct	cccaatgttc	catttcaaga	65880
cagatggatc	agtttgtcaa	ggtctgagta	ggaataaatg	gagtgtctca	aaggcaaata	65940
tgtagtgggtg	tgttcaattt	gataaaatca	cgcttgcata	ttttttctct	aaatttctctg	66000
aaccactcca	ctaagggaga	caacctagta	cttcttggtt	tttttctctt	caaattggctg	66060
cttctgagtc	acagatgtga	aataacagga	atcaaaggat	tcatggatca	agaaaaatga	66120
ctcctgatca	tttccagtag	gttatttctt	tggagctggt	ctgctctgcc	cccaggaggt	66180
gtaatggatt	tgaactaaat	gtaatcaaaa	attttcacct	gcatccttat	ttcctgaaag	66240
tagctcagtc	ccatgaagct	gaactttctg	cagctgtgag	acccacggca	tggctgcttc	66300
cttaggggaa	ataaactcga	tgtttctctg	agtcagaacc	acagaacaac	agtctcatga	66360
aatgctctat	gccaacaaa	aagcactctg	cactcagatt	tgggatgaga	ttcacatgcc	66420
atcagctctc	agagggtgat	agagcacatc	caagcttctg	gagccctgc	agcagagaaa	66480
tcattttatt	cataactctc	tgttaacttag	tcacttgat	tcatttttga	gtgctgcctt	66540
aacaaagtaa	caactgggta	gtttagacaa	cagaaatgta	ttgtctcaca	gttccagagg	66600
ctagaagttc	aaagtcaaag	tgttggcagc	tctgtcccaa	gcttccctcc	ttggcttgta	66660
gatggctgat	ttcatgttca	cagggcattc	tccccatata	ggtgtctatc	tccaaattcc	66720
atctgtttgc	aaagacacca	gtcatagtgg	attagagtcc	atctaacgac	ttcattttta	66780
cttgattacc	tctgtaaaga	ccctatctcc	acataagggtc	acattctgag	gtactgaggt	66840
ttagaactta	catctgaatt	tgaggaggga	gatgtaattc	aactgattat	accactgaat	66900
cctttttttc	ccatgtcatc	tattaacagc	ctgaagaaca	cgttttagagg	gatgttactg	66960
tggcttcaca	gataccatgc	tcttctcaca	tggttcccaa	atgccatttg	cagaatatat	67020
gcagaatcac	tgggagtgtc	ttttagaatt	ctaaatctgc	caggcatggt	ggctaacacc	67080
tgtaatccca	gtactttggg	agaccaaggc	aggcagatcg	cttgagccca	ggagtccgag	67140
accagcctgg	gcaacatggg	gaaaccccat	ccctactaaa	aatacaaaaa	attagctggg	67200
tgttgtggca	tgcacctgta	gtcccagcta	cttgagaagg	ttaggctgca	atgagccatg	67260

agcccatgat	cctccactgc	actccagcct	gggcaagaag	agtgaacct	gtcaaaaaaa	67320
aaaaagaaga	attatagatt	cttgggtctc	acctccacaa	attaaaatcc	actggatcta	67380
aggaggaact	caggaatttg	caattttacaa	agttgccag	aacattctga	tgcataacca	67440
ggttggagtt	ccacagccag	ttagtgtccc	cttattatctt	tttagacttg	atttgggcca	67500
taaatcttat	aatagctacc	taagaagtac	acttcttctt	taaacaatat	gaacatagaa	67560
ttgttttctc	atctctgttt	ttattacatc	ttctatcttc	ctccactgca	gtacaaaacca	67620
cttgatgtgc	atagattctg	ccttactcat	ctttttatctc	tcagtgtgta	ccagagaatc	67680
cacacataaa	taacattcaa	taagcgttta	ttgaagaaat	aaatacctcc	agcaacacag	67740
gcaaactgta	caattgtttc	atcattttaa	gaagtccctg	gccgggcgca	gtgggtcatg	67800
cctgtatccc	agcacttttag	gaggccaaga	caggtggatc	tcttaagctc	aggagttcga	67860
gaccagcctg	gccaacatgg	tgaacctca	tctctattaa	aaatacaaaa	aaaaaggtag	67920
ctgggcatgg	tgggtgtgcac	ctgtgggtccc	agctactcag	gtgattgagg	caggagaatt	67980
acttgaacct	gggaggcaga	ggttgcagtg	agctgagatc	acgtcactgc	actccagcct	68040
gggcaacaga	gtgagactcc	atctaaaaaa	aaaaaaaaga	aaaagaaaaa	aagaaaaaga	68100
aaaaagaaga	aaaatgttat	tgacattgac	atatctttat	acttgagaga	attcagctac	68160
tcttaagagt	ttaaccctgtg	cagccatgcc	cgctgtcctg	actcattttt	actcctgcca	68220
tgatagctta	cctgtggttt	caggacacat	ctttcttttt	ccagcctcaa	ggatcttttg	68280
cacatgctat	tttgaactc	ttctgcctac	cctctttctc	caccccatcc	ccagttgcca	68340
cgactatttc	caaatgaata	tttgttctgc	cttccaaatt	agaagtgggtg	cccctgttaa	68400
acgttttcat	aatgtctcat	tttttttccc	atggagacac	tgatcatgct	tgtaatgaat	68460
agttcaatgg	ttgtctctctc	tgacaaactc	taatctacat	gtaggcaggc	ttcatgtctg	68520
ttgtgttcat	ttttgaagcc	acagaaactt	gaacagagta	ggaactcaaa	tattaattga	68580
gtcgttatgc	gctttaccat	gattatgtgt	tttttcccac	cattaaactg	ggagcttctc	68640
tacagcaggg	actagatttta	atttattttt	ctattttttg	cacctggcac	agtgcctgga	68700
aggcagaaca	agcacataaa	attttcttaa	aatttgtaag	gtttttgttt	atttgaatgg	68760
ttgttttagtt	tttgccttga	tgaagcctg	ggatagaaat	ttagaacaag	gttggatgtt	68820
ggtgatcata	taaaaataga	tttgttcttt	tttgtcatta	gagcccaaac	ttaaaaata	68880
tgtcaataaa	aaaaataaac	tagaataaca	gggaacattt	aatggaacca	aggcacctca	68940
aacagctgac	atacttctaa	aaagcagaaa	gtaatagtaa	gggagataat	agcatacgag	69000
ttagttttcc	aattgccaaa	agatcacttc	aaatacagct	cttggcagtc	atcttcttat	69060
ggagaaactg	caacacttat	ggaatggcaa	ttccaccaat	cccctttttc	taacagcaga	69120
aaaacctgaa	ggagacaagc	ccagctatag	tccagctggg	acctgtggca	ataacctgac	69180
ctaaagttac	ataagtgatc	aggaccgtat	gtggtecgta	cccctctgcc	tgaggatgct	69240
acgcagctgt	ttaactctct	caaacatttt	gttctttttac	tgacaacca	ctgcagtcaa	69300
gttgtctatt	cccataatat	ggaatatttg	gtctatagta	atttcttatt	cctattttcta	69360
ggcaatcatg	taagataaag	ggaatgggca	cctatttctc	tggggaaggt	ataaatgtgt	69420
cttttatctc	tttccagtat	ccccactgtg	tagagctggg	ccacaatgga	gaggaggaaa	69480
agttttgcat	tggaccaaat	cactgcctta	gaaggaaaga	gattgcaatc	ccattcattt	69540
ttaagatctg	caatggggtt	ggatgatacc	catttaaaaa	agaaaaaaaa	agaggttacc	69600
tctttggcct	ctttggcaaa	ggatatgaac	tagtaataaa	gcctcagcat	caaggcttgg	69660
gagtctggct	caaagtggct	aagactagaa	gcatcttcta	acataaatat	ggcagcatta	69720
ggaaaatagc	ttggccttta	gagagaccca	gattatcttc	accttaaaaa	ctaccaagac	69780
cctggtccag	caagaccacc	atcacagcag	taaatacata	gccaccaact	tcacagaagg	69840
ttttccactg	agacattgtg	aaaaccacaa	tccattaccg	gtggatgagt	cccagctctc	69900
ttactacctg	gagcttccaa	gcaagactta	cctgtccttt	gttccagatt	ggttcctggg	69960
atcctggacc	aacacaaaaga	gaagaggaaa	gcctcaaggg	aaataaaaagt	gaaggtttca	70020
gtgatagttt	aaatatatat	ttttaaatgt	tagctttttt	ttaaatactt	cacagtgatg	70080
gatggagtat	ttcaaccaca	atggcaaaga	atgaattacc	ggcagtgta	gagtttcttg	70140
ttgctgtggg	aagacagctg	ccatgttgag	aggtgccttg	tggagaggct	catgtggcga	70200
ggaaactgaga	ctggcttcta	tccaacaacc	agtgaggaa	taaggcccta	aagtcctata	70260
gtccacaagg	aactaaatcc	taccaacaac	tacatgagtg	agcctggaat	ctgattttcc	70320
ccagtgggga	cttaaggtac	ctacaacctg	gctgttatgg	gctaaactgc	atcctgcccc	70380
aatttatatg	tttgagtctt	aactcccagc	acttcagaac	atggttttgt	ttggagacat	70440
agtcattaaa	gaggtaatat	agttaaaatg	aggtcattag	gatgagtcct	aatccaatag	70500
gactggtgtt	cttatatgaa	gaggaaatct	gaacacagac	acatatcacg	gaaagaccat	70560
gcgaagaaga	cacagagagg	aaacggccat	ctacaatcca	aggagagagg	cctcagaaca	70620
agccaacct	gcagatacct	tgatctaggg	atccagaatt	gtatgaaaat	acatttttgt	70680

tattttaagct	accagctctg	tggtgctttg	ttatggcaat	cccagaaaac	taattaacta	70740
attgactgca	gccttgcaag	ggaccctgaa	ccagaggacc	cagttaagcc	atgtgcagat	70800
tcctgactca	cagaactagg	agataacaaa	tgtttggtgt	tctaagggtgc	taaatggttg	70860
gaaaatatgt	tatgtggcta	tggtgttttg	cacatgtgcc	acataatgat	gttttggtca	70920
acaacagacc	acacatatga	tggtggggccc	ataagattgt	aatactgtgt	ttctattatg	70980
cattctctat	ttatagatac	acaaatactt	gccactgtgt	tacaattgcc	tactgtcttc	71040
agtactgtaa	catgctgtac	aggtttgtag	cccagaagca	atagactata	ccatacagtc	71100
tggtgtgtga	gtaggctata	ccatctatgt	ttgtgaagta	cactctatga	tgttcacata	71160
attatgaagt	tgcttagtga	tgcatctctc	agaatgcatg	cccacatta	agtgacactt	71220
ggcttttatgt	ctatcatgca	tttaagatat	tgcaatatag	ttacttatg	ttttaataca	71280
cctcttaatt	ctgttttgat	cccacaccaa	ccaagatgca	aaactaattt	tttcgccccat	71340
ttccataaaa	aacacaatta	caatgggcct	aatgtggttt	atgtcatttt	ccctgaagat	71400
ttgtgggtgg	ataggaagca	gtcacagcac	cctgtataaa	gctcttccat	ggcctgcccc	71460
cttttcgcag	tcacctctat	tatttgaagg	aatgggtcaa	ccaacctcaa	agctctggaa	71520
atltgcccc	aaataatttt	accctgaagc	cattgaagct	taagtttcag	acccagttt	71580
cacattcctg	tgagttctgc	aagtcactgg	gagctataga	gtcttctacg	tagatttggtg	71640
aaacaaggtg	aaaatacctc	aagaaatctc	agaagccagg	ggcctgcac	tccaagcctc	71700
tggaattttt	cttgtggttt	ctatcctcac	tctagatat	tgcttttgag	actgattttg	71760
aattcagaat	tttataattct	ctcaaaaaga	gaattctcca	aattctataa	gcttcaggct	71820
ctacaaaact	tgtctattct	gcctaactag	atltatcata	gcacgtacca	aagatggccc	71880
tgctcatga	ggacttttca	tatcagaccc	ttagataata	atattccctc	atgtaagtaa	71940
taatatltcc	gcatgtagtt	atgtatgaat	aattttcatt	catctatata	atgttggtcca	72000
tagtcagtgt	ccatgtccaa	tttatttttt	gtgtccttgg	tgctcagaaa	gttaccagat	72060
gttcagtcag	aattttatlt	aaaatattlt	gatgaactag	atltaaagat	agattaaatt	72120
aattcctaca	catgatttaa	tttaattggat	aaaataaggg	actgagcatt	agcctgaact	72180
gtgtacttgc	attagccctg	atgttcccca	gagggataaa	tatgtgaaga	atactgcata	72240
ggctgaaaaa	caagagttcc	cagcagacca	atattctttc	tttctgcaag	ctgtgagaca	72300
cctggggaaa	gttctccaca	tttggttttt	cagctactcc	acccatgact	agaaggaaga	72360
ttttatttta	ttattttatt	ttattgtatt	ttttaacagt	aaaagaaaaa	ttattgttat	72420
tttaatgaaa	aagaaccacc	tggaaagtct	agtgcatttt	ttgaaggcag	ggaccacttt	72480
ttccagggat	ttgtttccct	atgtctagtc	tccattccac	cttgcaccac	ttcagcaaaag	72540
cacatagtag	gtgtagcagg	gagatgttaa	gatggaaact	tggtccctgac	cataggccaa	72600
gccagggtgt	ctagtcggga	tttatccata	aacatcaata	tttatcacta	gatgatatat	72660
tgattttctta	tctgctcct	atacctattg	atctattttt	cacagcttat	agtggggagg	72720
gtcatgttca	gttattatcc	ttaaacccaa	acaatctctt	cttgaaaaat	aggatgctat	72780
gctctgatgt	ttgcagaggc	caggaaattc	ttgctctgag	agttccagaa	aaaaagattt	72840
gtccagattt	gaactaattt	cagaaaaaca	aaacaaaaac	aaaaaaacct	ccaaggttaa	72900
gaggtgactt	ctgactcaca	gaatgaacaa	gaaggcaggg	gaaaaaataa	gtcccccaag	72960
attcaggtca	aaggaaatga	acagaaggat	gatggagtgg	cccagaggag	gatcacgtga	73020
cagaaaagtc	aagataaatt	agtggcagga	cagaggaaaa	gaactaaaga	cctgcaggat	73080
cctgaaagaa	agaatgaaag	gaagcagatg	aagattctag	agcccagctg	aatagccagg	73140
ccgctgagg	gtaaagaggg	agagaaagag	gaagcagtga	atcaaatcaa	aaaaggatag	73200
aaaaatacac	agaaacaagc	cagggcacgg	tggtctcac	ctgtaatccc	agcacttttg	73260
gatgacaagg	aaggcggatc	acatgaggcc	aggaatttga	gaccacgctg	gccaacatgg	73320
caaaaccctg	tctctactag	aaaaatatgg	aggaatgttt	gagagattgt	gcactgccag	73380
gggtgaggac	ataaatttat	ttgctatgtg	aatgtttttt	gagactcatc	tagttccttt	73440
acaattttta	tttagaattt	ctttagctcc	aatcaggat	cattagctgg	gagttcttat	73500
aatcaaaaag	caaaacaaag	ctattgcaaa	caagtgggag	ttctcataac	cttaatcaga	73560
aaggcttgag	ttgcatttcc	aaatcctgtc	tctagagacc	atgagttttt	aatgatagta	73620
tttccatgaa	agcccaattg	aatacaatca	ccaccagac	caaagtgtag	gggaaatcat	73680
aaagctactt	tcaaattccga	gtcttctttg	aaatttaaaa	ttatatcca	tgataatgg	73740
tctcataaac	cttaatgcaa	gggaaaaaaa	aaaaactaca	gcagaataaa	gaagatttaa	73800
aaagaagcag	gataggaaaa	aagacaagcc	agaggctagc	tatatctttt	cataaagcac	73860
acctggtctc	ataagcacat	gagagctagg	cccagaagtt	tcgagccttg	gagactcact	73920
tcaaacaaat	tccagggaaa	gacactcaat	taagtgttca	ggacaattgt	atatccccag	73980
tgactcatg	tactggaagt	gcttaaactc	tgccctcagt	ggtcaataaa	atgggtattaa	74040
gtcacagaca	acccattgcc	attgggtattg	gctgatgtct	ctggtagttt	atgtgatgac	74100

aaacattagc	cttaacagca	gagccttcct	ttcttttgatt	tccgtgtgaa	attctgtggc	74160
tgggagatgt	ttatgttcac	atgaacataa	ctgtaagcaa	accatcttat	ggtagacatc	74220
tctccagaaa	aagcaaattc	catcttttta	aatagaaaaa	aaaaacagca	gcaaaatgaa	74280
attaatgcct	ttggctcatt	gtgttgtaaa	attatccttg	aagttatttc	acactgccct	74340
aaaaaatcat	tgaattcaga	ttataacaca	gctcttatga	agctgttagg	cagttgcatac	74400
tttaatgagg	ctgagtaggt	aagaggaaca	gatactctag	attgaaagcc	atcgcaaaaa	74460
atgtgaaaca	actgtattaa	atttaattta	atttaaccaa	tgggtgtatt	tattccctgc	74520
cttcttccag	aaaggattta	gggagcttag	gtaatgtgga	ggtctgaagg	tgtagatact	74580
catgaaagcc	tcagattaat	atctagaaca	tataatgtgt	ccagatagtt	ttcaattatc	74640
aatgcattaa	tctaagcttg	gaaaggactt	ttaaactgca	atgaaacctc	aactagtttc	74700
aaacctgcat	tttttagtaa	gctattttgt	catttgagg	cccacacaaa	aaacctattg	74760
ttcctttaaa	aaggagagag	agaaaaaaag	aaaaacaacc	tgctgggtgt	gctttgttca	74820
tcttatcacc	ttatcattca	gcagcctatt	caggatcaaa	tgtgggaaag	tctgtgtgtg	74880
agattaagcc	ctatactcag	cacaggaatt	tcttgataaa	atgtctttct	taaatggata	74940
gctatgtaaa	aaacagaaga	gaaactctat	tattacaatg	cagttgggtt	tttttgtttg	75000
gtatgtttca	aatctaatat	ttaaaattaa	gaaaattcaa	agcaaaccat	ctgtgtggat	75060
gttttcatac	tccatttttg	tgacaatagc	ttgcttaacc	gagattatta	gtggattctt	75120
tcaataagag	gaagagagta	ccatcattaa	gatggtagtc	ctccactagc	ctttattttt	75180
gagattaaag	aatgacaaaa	atattttat	atatttttgc	attattaaga	cggagtctca	75240
ctctatcgcc	aaggctggag	tgcaagtggc	ccatctggc	tcactgcaac	ctctgcctcc	75300
caggttcaag	caattctccc	acttcggcct	cttgagtgc	tgggatcaca	ggcaccgcgc	75360
accacacctg	gctaattttt	gtatttttag	tagagatggg	gtttcaccac	attgcccagg	75420
ctggctctca	attcctgacc	tcaagtgate	cgctgcctc	agcatccac	agtgtctgga	75480
ttacaggcat	gagccaccac	aactagccaa	aaaatatata	ttttctttta	aaaaaagtta	75540
ttttctgctt	aattacttca	atatttcatg	aacattgtgg	gggaaagaat	attcatacag	75600
ttctctaaat	atatacgtga	gttgaggtac	caaatacaga	attctattga	attctaattg	75660
caacactgaa	gcagacttac	tctaagatcc	tgctacctgg	actaaccaca	gactataccc	75720
agattccatc	tgcaagatgt	agtggagcca	aacatcacat	cactgaggaa	tattttattat	75780
atatctttct	gtagaggtga	gagagtattt	atagatataa	caaacaattg	gtcagatact	75840
actggagatt	tggaagcttc	actaggtttt	tcactaaatt	tgttgatagc	caactctaaa	75900
gctcattcta	ctactactag	ccatcttccc	ttggacaatt	tcatgggcat	cgcttccactg	75960
aaaagaaaaa	tgagtaagta	taatctcact	agtacatgaa	taactattat	aaacacaata	76020
ctttctacaa	ggttttattac	taatctatgt	cattttaagtt	ctagatttta	cagtattttg	76080
gagtgatgaa	taaatagcat	gctgttcttc	tatagctagc	aaacaagact	cagctttgga	76140
gacaagaaga	aggaatacag	gagatgtttc	cttgaatgag	tcttcttctc	aaactctgct	76200
agaagtatgt	cagaaagcga	aggttacctc	agtctccaag	tcatgaaaac	atgaggtctt	76260
tctgttttct	agggaaaagta	tttcatcatt	tcctagtgtg	gctttttgca	caccccagaa	76320
ggaggaagac	aagccatcgt	gtcaccttta	catggtagtt	gagatgcttc	acatttgtac	76380
ataacatctt	atatattcga	aagaggaact	caaactcgac	agggggagaat	aaggaaatac	76440
atctaaaact	gacaattatg	ttaatccctc	aattccctgg	gccccaaaaa	tagtctcctc	76500
tatttgccat	ttcaaaaatg	ctaataagag	ggtaattgga	catgtagaca	ctgaatttcc	76560
actgctcatg	gtttccttcc	ctgggctccc	agtcaccg	aaggccccgg	attacctcaa	76620
atgtcataac	gggttcacgt	cattacgaat	tacctccttc	tgccaataaa	ctacaagttc	76680
tttgaggaca	gaaactgtga	tttatgggca	tttgatcccc	cagagattca	aagagtgcct	76740
gatacagagt	ggtgatagat	gatttttatca	tcttatcatc	atcatcctca	tcatcgttgt	76800
acctaaatag	aggttacttc	ctgtttcttt	tatttaacaa	taacctatta	taatataatc	76860
tatgcatttt	taatgcactt	tacaaatatt	gtcctcattt	aatccctgta	agggtgaatac	76920
tattattggc	tccattttgc	agataagaca	ctgagtcgtg	aaaaggctaa	gtacctcaca	76980
caagatcaca	cagccagtga	cagaactagg	atttggtctg	actcttaaag	actctgggtt	77040
gccattttaa	ggtacgctga	gtccacacac	actgccttag	aacttgctca	gagcaattgt	77100
catattacta	tggtaggttt	ccctgtctcc	cttaagactt	aaagcttctg	gagatcagaa	77160
actgtattgt	ttacttgcaa	aatcatgggc	ttaggagcca	gaaagatctc	gatctaagtc	77220
ctgcctcatc	tgtctcttct	tcatgggatt	agtagactga	ttttccccct	gcttagccat	77280
gcagtttgaa	tgggaattcac	cccattctca	gctacaacca	cggatcttgt	ttgctttaaa	77340
ccaatcatca	ctgccccatt	ttctggcctt	tgattgattt	aaaggtgaac	acatgaccgc	77400
tttggaacca	tgaggctcag	gtgggtattt	gtgagggctc	ctggaataga	aatcattttc	77460
tcttctgaca	gaactacaag	gcaaggcgca	atcactgatg	gtgaaagata	aagatcatta	77520

tatttaggaac	tgttggctgt	catactgcta	atgtgaggtg	agttagcctt	agaaagagga	77580
tgctaccttg	aaaggcaggg	cagatctatg	gaaataaaact	gagtttgtgg	tgacattgat	77640
agccacttta	gttcatcagc	tgaatcccaa	tctacttggg	tttttcagct	ctgtaagcca	77700
acaaataccc	tgctagtgtt	ttagcctatg	ccagttgttt	tttctgctgc	ttgttaataa	77760
gacacataca	gtccttgaca	aattatataa	aaatatgaat	ctttggccag	gcatggaggc	77820
tcacgcctgt	aatcccaaca	ctttgggagg	ccgaagcggg	cggatcacag	ggtcaggagt	77880
tcgagaccag	cctggccaat	atggtgaaac	cccgtctcta	ctaaaaatac	aaaaattagc	77940
tggtatgtgt	ggcacatgcc	tgttgtccca	gctactcagg	aggctgaggc	agaagaatcg	78000
cttgaacccg	ggaggcagag	gttgacagta	gctgagatca	tgccactgaa	ctccagcctg	78060
ggagacagaa	tgacactcgg	tctcaaaaaa	aaaaaaaaaat	tctgaatctt	tgaatgttat	78120
cgtatagctt	tttaaaagac	tagattaagc	tatggatgta	agcaccaatg	catttttttta	78180
aaagtatat	ggatgaatga	gttaaagtct	aagtgaattc	agcaagtttg	taacccttga	78240
gctcttgtga	gctcaatctg	ccctcaatca	tctgagaatg	aacaaaacag	actcaaccat	78300
tttgtgtcat	ccagatgaat	agaaagggcc	tgaatatatt	cttttttttat	atttttttgtc	78360
ataggcccta	gcgttttcat	ctgctcagtt	tttgagtgtg	cttggttaggg	ctttaatgct	78420
aaactcaatg	taagctgggt	ttatgtaatt	tagtggtttc	tagacttagg	cttcctaaat	78480
gttccattag	acaagaagac	aaaatatgaa	acaaaataac	atcaaaactac	cattaacaat	78540
tagcattgtc	agagttagta	aaaactgttt	tgaataaag	cagcttttca	ggccagtagt	78600
tgagaactaa	tgatagagtt	ttttgtagg	caatgaatga	agtgttgtgg	aacaaatgtg	78660
gatttggact	ttcaagacca	acttgaacca	gagtcttgaa	tctgcaactt	tactagctgt	78720
ggcttctttt	taattgatta	actttctttt	tctgtaaaat	gggaataatg	attcctacct	78780
cttacaagcg	ttgtggtagg	aggtattcca	aatgagataa	atatgtgaaa	tcactaaaac	78840
ttccagaata	catggaata	atatatgtct	gtattggcaa	attatgagtg	tagtaatgag	78900
ggattttacat	ggacacattt	acattcttta	gttcagactc	cctttgacga	cacataacaa	78960
acacacacaa	gaatatttgc	cctgtgtcca	gcactctttt	gagaatttct	ctcttctcct	79020
ccttctgata	tcccaaccaa	ccaaccagta	ggaatgtgcc	ctagaaacta	tgttttacag	79080
ctcagtcac	atcttttcac	cttacaat	acttattgtt	agtttcttgg	gaaagtaaaa	79140
ttgagatatt	aagattctat	gaaattgggt	gggtggtattg	aagactgtgc	tgctgctgct	79200
gctactgctc	cagaactcta	gtggagatat	tacaaatggg	agcagaaaaa	gtgagaagg	79260
ggctctgtaga	gacagagcac	agcacagagg	tagaaagggt	gagataaaga	aacaatgcag	79320
tgagagaagg	agagaacaca	gacatagaaa	cagagacata	aaggcaccag	acacgagagc	79380
agagataatt	taataaggcc	gtagtttctc	ttggatttcc	agttccttct	tttagtcaat	79440
tctgatattt	agcacactgc	actgcaccag	atatcttgtc	gccttcaaat	aaagtatttt	79500
ttccctctaa	acatgcta	ttgggcttgt	attatttgc	atcaatagaa	ttgagaaaaa	79560
cactctatgt	catatctgaa	ctagtatatc	agaatgggtt	tctgccattg	gtaacagaga	79620
cccagctcaa	tggtctaaac	acacaagggt	ttatcctgtc	acattaacaa	aaaaaaaaagt	79680
gcagagtagc	agtcgggggt	tagctttttt	ttaaataact	cacagtgatg	gatggagtag	79740
ttcaaccaca	atggcaaaga	atgaattacc	ggcagtgctc	gagtttcttg	ttgctgtggg	79800
aagacagctg	ccatgttag	aggtgccttg	ttggagggct	catgtggcga	ggaactgaga	79860
ctggcttcta	tccaacaacc	agtgaggaac	taaggcccta	aagtcctata	gtccacaagg	79920
aactaaatcc	taccaacaac	tacatgagtg	agcctggaat	ctgattttcc	ccagtgggga	79980
cttaaggtag	ctacaacctg	gctgttatgg	gctaaactgc	atcctgccc	aatttatatg	80040
ttttagtctt	aactcccagc	acttcagaac	atggttttgt	ttggagacat	agtcattaaa	80100
gaggtaatga	agttaaaatg	aggtcattag	gatgagtcct	aatccaatag	gactgggtgt	80160
cttatatgaa	gaggaaattt	gaacacagac	acatatacag	gaaagaccat	gcgaagaaga	80220
cacagagagg	aaacggccat	ctacaatcca	aggagagagg	cctcagaaca	agccaaccct	80280
gcagatacct	tgatctaggc	atccagaatt	gtatgaaaat	acatttttgt	tattttaagct	80340
accagtcctg	tggtgctttg	ttatggcaat	cccagaaaac	taattaacta	attgactgca	80400
gccttgcaag	ggaccctgaa	ccagaggacc	cagttaagcc	atgtgcagat	tcctgactca	80460
cagaactagg	agataacaaa	tgtttgttgt	tctaagggtg	taaatgttgg	gaaaatatgt	80520
tatgtggcta	tgttgttttg	cacatgtgcc	acataatgat	gttttgggtc	acaacagacc	80580
acacatatga	tggtgggccc	ataagattgt	aatactgtgt	ttctattatg	cattctctat	80640
ttatagatac	acaaataact	gccactgtgt	tacaattgcc	tactgtcttc	agtactgtaa	80700
catgctgtac	aggtttgtag	cccagaagca	atagactata	ccatacagtc	tgggtgtgta	80760
gtaggctata	ccatctatgt	ttgtgaagta	cactctatga	tgttcacata	attatgaagt	80820
tgccatgtga	tgcatctctc	agaatgcatg	cccagacatta	agtgacactt	ggctttatgt	80880
ctatcatgca	tttaagatat	tgcaatatag	ttaacttatg	ttttaataca	cctcttaatt	80940

ctgttttgat	cccacaccaa	ccaagatgca	aaactaattt	tttcgccc	ttccataaaa	81000
aacacaatta	caatgggcct	aatgtggttt	atgtcatttt	ccctgaagat	ttgtgggtgg	81060
ataggaagca	gtcacagcac	cctgtataaa	gctcttccat	ggcctgcccc	cttttcgcag	81120
tcacctctat	tatttgaagg	aatgggtccaa	ccaacctcaa	agctctggaa	atttgcccca	81180
aaataatttt	accctgaagc	cattgaagct	taagtttcag	accccagttt	cacattcctg	81240
tgagttctgc	aagtcactgg	gagctataga	gtcttctacg	tagatttggg	aaacaagggtg	81300
aaaatacctc	aagaaatctc	agaagccagg	ggcctgcac	tccaagcctc	tggcaatttt	81360
cttgtgggtt	ctatcctcac	tctagatatt	tgcttttgag	actgattttg	aattcagaat	81420
tttatattct	ctcaaaaaga	gaattctcca	aattctataa	gcttcagggt	ctacaaaact	81480
tgtctattct	gcctaactag	atztatcata	gcacgtacca	aagatggccc	tgccctcatga	81540
ggacttttca	tatcagaccc	ttagataata	atattccctc	atgtaagtaa	taatatttcc	81600
gcatgtagtt	atgtatgaat	aatttttcatt	catctatata	atgttggcca	tagtcagtg	81660
ccatgtccaa	tttatttttt	gtgtccttgg	tgctcagaaa	gttaccagat	gttcagtcag	81720
aattttatatt	aaaatatttt	gatgaactag	atttaaagat	agattaaatt	aattcctaca	81780
catgatttaa	tttaattgat	aaaataaggg	actgagcatt	agcctgaact	gtgtacttgc	81840
attagccctg	atgttcccca	gagggataaa	tatgtgaaga	atactgcata	ggctgaaaaa	81900
caagagttcc	cagcagacca	atattctttc	tttctgcaag	ctgtgagaca	cctggggaaa	81960
tttctccaca	tttgggtttt	cagctactcc	accttagact	agaaggaaga	ttttatttta	82020
ttattttatt	ttattgtatt	ttttaacagt	aaaagaaaaa	ttattgttat	tttaatgaaa	82080
aagaaccacc	tggaaagtct	agtgcatttt	ttgaaggcag	ggaccacttt	ttccagggat	82140
ttgtttccct	atgctagtgc	tccattcacc	cttgaccac	ttcagcaaag	cacatagtag	82200
gtgtagcagg	gagatgttaa	gatggaaact	tggccctgac	cataggccaa	gccaggggtg	82260
ctagtccgga	tttatccata	aacatcaata	tttatcacta	gatgatatat	tgatttctta	82320
tctgcctcct	atacctattg	atctattttt	cacagcttat	agtggggagg	gtcatgttca	82380
gttattatcc	ttaaaccaa	acaatctctt	cttgaaaaat	aggatgctat	gctctgatgt	82440
ttgcagaggc	caggaaattc	ttgctctgag	agttccagaa	aaaaagattt	gtccagattt	82500
gaactaattt	cagaaaaaca	aaacaaaaac	aaaaaaccat	ccaagggtta	gaggtgactt	82560
ctgactcaca	gaatgaacaa	gaaggcaggg	gaaaaaataa	gtcccccag	attcaggtca	82620
aaggaaatga	acagaaggat	gatggagtgg	cccagaggag	gatcacgtga	cagaaaagtc	82680
aagataaatt	agtggcagga	cagaggaaaa	gaactaaaga	cctgcaggat	cctgaaagaa	82740
agaatgaaag	gaagcagatg	aagattctag	agcccagctg	aatagccagg	ccgcctgagg	82800
gtaaagaggg	agagaaagag	gaagcagtga	atcaaataca	aaaaggatag	aaaaatacag	82860
agaaacaagc	cagggcacgg	tggctctcac	ctgtaatccc	agcacttttg	gatgacaagg	82920
aaggcggatc	acatgaggcc	aggaatttga	gaccacgctg	gccaacatgg	caaaacctg	82980
tctctactag	aaaaatatgg	aggaattgtt	gagagattgt	gcaatgccag	gggtgaggac	83040
ataaatttat	ttgctatgtg	aatgtttttt	gagactcatc	tagttccttt	acaattttta	83100
tttagaattt	ctttagctcc	aaatcaggat	cattagctgg	gagttcttat	aaatcaaaag	83160
caaaacaaag	ctattgcaaa	caagtgggag	ttctcataac	cttaatcaga	aaggcttgag	83220
ttgcatttcc	aaatcctgtc	tctagagacc	atgagttttt	aatgatagta	tttccatgaa	83280
agcccaattg	aatacaatca	ccaccagac	caaagtgtag	gggaaatcat	aaagctactt	83340
tcaaatccga	gtcttctttg	aaatttaaaa	ttatattcca	tgataatgg	tctcataaac	83400
cttaatgcaa	gggaaaaaaa	aaaaactaca	gcagaataaa	gaagatttaa	aaagaagcag	83460
gataggaaaa	aagacaagcc	agaggctagc	tatatctttt	cataaagcac	acctggtctc	83520
ataagcacat	gagagctagg	cccagaagtt	tgcagccttg	gagactcact	tcaaacaaat	83580
tccagggaaa	gacactcaat	taagtgttca	ggacaattgt	atatccccag	tgcaactcatg	83640
tactggaagt	gcttaaactc	tgccctcagt	ggtcaataaa	atgggtattaa	gtcacagaca	83700
acccattgcc	attgggtattg	gctgatgtct	ctggtagttt	atgtgatgac	aaacatttagc	83760
cttaacagca	gagccttcct	ttctttgatt	tccgtgtgaa	attctgtggc	tgggagatgt	83820
ttatgttcac	atgaacataa	ctgtaagcaa	accatcttat	ggtagacatc	tctccagaaa	83880
aagcaaatc	catcttttta	aatagaaaaa	aaaaacagca	gcaaaatgaa	attaatgcct	83940
ttggctcatt	gtgttgtaaa	attatccttg	aagttatttc	acactgccct	aaaaaatcat	84000
tgaattcaga	ttataacaca	gctcttatga	agctgttagg	cagttgcac	tttaatgagg	84060
ctgagtaggt	aagaggaaca	gatactctag	attgaaagcc	atcgcaaaaa	atgtgaaaca	84120
actgtattaa	atttaactta	atttaaccaa	tgggtgtatt	tattccctgc	cttcttccag	84180
aaaggattta	ggggaacttag	gtaatgtgga	ggctgaagg	tgtagatact	catgaaagcc	84240
tcagattaat	atctagaaca	tataatgtgt	ccagatagtt	ttcaattatc	aatgcattaa	84300
tctaagcttg	gaaaggactt	ttaaactgca	atgaaacctc	aactagtttc	aaacctgcat	84360

tttttagtaa	gctattttgt	catttgagaga	cccacacaaa	aaacctattg	ttcctttaaa	84420
aaggagagag	agaaaaaaag	aaaaacaacc	tgctgggtgt	gctttgttca	tcttatcacc	84480
ttatcattca	gcagcctatt	caggatcaaa	tgtgggaaag	tctgtgtgtg	agattaagcc	84540
ctatactcag	cacaggaatt	tcttgataaa	atgtctttct	taaattggata	gctatgtaaa	84600
aaacagaaga	gaaactctat	tattacaatg	cagttgggtt	tttttgtttg	gtatgtttca	84660
aatctaatat	ttaaaattaa	gaaaattcaa	agcaaaccat	ctgtgtggat	gttttcatac	84720
tccatttttg	tgacaatagc	ttgcttaacc	gagattatta	gtggattctt	tcaataagag	84780
gaagagagta	ccatcattaa	gatggatgac	ctccactagc	ctttattttt	gagattaaag	84840
aatgacaaaa	atattttatat	atattttttc	attattaaga	cggagtctca	ctctatcgcc	84900
aaggctggag	tgcatgtggc	ccatcttggc	tactgcaac	ctctgcctcc	caggttcaag	84960
caattctccc	acttcggcct	cctgagtagc	tgggatcaca	ggcaccgcgc	accacacctg	85020
gctaattttt	gtattttttag	tagagatggg	gtttcaccac	attgcccagg	ctggtctcaa	85080
attcctgacc	tcaagtgatc	cgctgcctc	agcatcccac	agtgtctgga	ttacaggcat	85140
gagccaccac	aactagccaa	aaaatatata	ttttctttta	aaaaaagtta	ttttctgcct	85200
aattacttca	atatttcatg	aacattgtgg	gggaaagaat	attcatacag	ttctctaaat	85260
atatcagtga	gttgaggtag	caaatacaga	attctattga	attctaattg	caacactgaa	85320
gcagacttac	tctaagatcc	tgctacctgg	actaaccaca	gactataccc	agattccatc	85380
tgcaagatgt	agtggagcca	aacatcacat	cactaggaa	tatttattat	atatctttct	85440
gtgagagtga	gagagtattt	atagatataa	caaacaattg	gtcagatact	actggagatt	85500
tggaagcttc	actaggtttt	tactaaatt	tgttgatagc	caactctaaa	gctcattcta	85560
ctactactag	ccatcttccc	ttggacaatt	tcatgggcat	cgcttctactg	aaaagaaaaa	85620
tgagtaagta	taatctcact	agtacatgaa	taactattat	aaacacaata	ctttctacaa	85680
ggttttattac	taatctatgt	cattttaagtt	ctagatttta	cagtattttg	gagtgatgaa	85740
taaatagcac	gctgttcttc	tatagctagc	aaacaagact	cagctttgga	gacaagaaga	85800
aggaatacag	gagatgtttc	cttgaatgag	tcttcttctc	aaactctgct	agaagtatgt	85860
cagaaagcga	aggttacctc	agtctccaag	tcatgaaaac	atgaggtctt	tctgttttct	85920
agggaaagta	tttcatcatt	tcttagtgtg	gctttttgca	cacccagaa	ggaggaagac	85980
aagccatcgt	gtcaccttta	catggtagtt	gagatgcttc	acatttgtac	ataacatctt	86040
atatgatcga	aagaggaact	caaactcgac	aggggagaat	aaggaaatac	atctaaaact	86100
gacaattatg	ttaatccctc	aattccctgg	gccccaaaa	tagtctcctc	tatttgccat	86160
ttcaaaaatag	ctaatagagag	ggtaattgga	catgtagaca	ctgaatttcc	actgctcatg	86220
gtttccctcc	ctgggctccc	agtcacccgg	aaggcccg	attacctcaa	atgtcataac	86280
gggttcatcg	cattacgaat	tacctccttc	tgccaataaa	ctacaagttc	tttgaggaca	86340
gaaactgtga	tttatgggca	tttgtatccc	cagagattca	aagagtgcct	gatacagagt	86400
ggtgatagat	gattttatca	tcttatcatc	atcatcctca	tcatcgttgt	acctaaatag	86460
aggttacttc	ctgtttcttt	tatttaacaa	taacctatta	taatatatac	tatgcatttt	86520
tattgcactt	tacaaatatt	gtcctcattt	aatccctgta	aggtgaatac	tattattggc	86580
tccatttttg	agataagaca	ctgagtcgtg	aaaaggctaa	gtacctcaca	caagatcaca	86640
cagccagtga	cagaactagg	atttggctgg	actcttaaag	actctggttt	gccattttaa	86700
ggtacgctga	gctccacaac	actgccttag	aacttgetca	gagcaattgt	catattacta	86760
tggtagggtt	ccctgtctcc	cttaagaact	aaagcttctg	gagatcagaa	actgtattgt	86820
ttacttgcaa	aatcatgggc	ttaggagcca	gaaagatctc	gatctaagtc	ctgcctcatc	86880
tgttcttctt	tcatgggatt	agtagactga	ttttccctt	gcttagccat	gcagtttgaa	86940
tggaattcac	ccattctca	gctacaacca	cggatcttgt	ttgctttaaa	ccaatcatca	87000
ctgccaatt	ttctggcctt	tgattgattt	aaaggtgaac	acatgaccgc	tttggaacca	87060
tgaggctcag	gtggtatttt	gtgagggtct	ctggaataga	aaatcatttc	tcttctgaca	87120
gaactacaag	gcaaggcgca	atcactgatg	gtgaaagata	aagatcatta	tattaggaac	87180
tgttggtgtg	catactgcta	atgtgaggtg	agttagcctt	agaaagagga	tgctaccttg	87240
aaaggcaggg	cagatctatg	gaaataaact	gagtttgtgg	tgacattgat	agccacttta	87300
gttcatcagc	tgaatcccaa	tctacttggg	tttttcagct	ctgtaagcca	acaaataccc	87360
tgctagtgtt	ttagcctatg	ccagttgttt	tttctgctgc	ttgttaataa	gacacatata	87420
gtcttgagca	aattatataa	aaatatgaat	ctttggccag	gcatggaggc	tcacgcctgt	87480
aatcccaaca	ctttgggagg	ccgaagcggg	cggatcacag	ggtcaggagt	tcgagaccag	87540
cctggccaat	atggtgaaac	ccgctctcta	ctaaaaatac	aaaaattagc	tggtgtgggt	87600
ggcacatgcc	tgttgtccca	gctactcagg	aggctgaggc	agaagaatcg	cttgaacccg	87660
ggaggcagag	gttgagtgga	gctgagatca	tgccactgaa	ctccagcctg	ggagacagaa	87720
tgacactcgg	tctcaaaaaa	aaaaaaaaat	tctgaatctt	tgaatgttat	cgtatagctt	87780

tttaaaagac	tagattaagc	tatggatgta	agcaccaatg	catttttttta	aaagtatatatt	87840
ggatgaatga	gttaaagtct	aagtgaattc	agcaagtttg	taacccttga	gctcttgtga	87900
gctcaatctg	ccctcaatca	tctgagaatg	aacaaaacag	actcaacccat	tttgtgtcat	87960
ccagatgaat	agaaagggcc	tgaatatatt	cttttttttat	atttttttgtc	ataggcccta	88020
gcgttttcat	ctgctcagtt	tttgagtgtg	cttggttaggg	ctttaatgct	aaactcaatg	88080
taagctgggt	ttatgtaatt	tagtggtttc	tagacttagg	cttcctaaat	gttccattag	88140
acaagaagac	aaaatatgaa	acaaaataac	atcaaactac	cattaacaat	tagcattgtc	88200
agagtcagta	aaaactgttt	tgaaataaag	cagctttttca	ggccagtatt	tgagaactaa	88260
tgatagagtt	tttttgtagg	caatgaatga	agtgttgtgg	aacaaatgtg	gatttggact	88320
ttcaagacca	acttgaacca	gagtcttgaa	tctgcaactt	tactagctgt	ggcttctttt	88380
taattgatta	actttctttt	tctgtaaaat	gggaataatg	attcctacct	cttacaagcg	88440
ttgtggtagg	aggtattcca	aatgagataa	atatgtgaaa	tcactaaaac	ttccagaata	88500
catggaaata	atatatgtct	gtattggcaa	attatgagtg	tagtaatgag	ggatttacat	88560
ggacacattt	acattcttta	gttcagactc	cctttgacga	cacataacaa	acacacacaa	88620
gaatatattgc	cctgtgtcca	gcactctttt	gagaattttct	ctcttctcct	ccttctgata	88680
tcccaaccaa	ccaaccagta	ggaatgtgcc	ctagaaacta	tgttttacag	ctcagtcacc	88740
atcttttccac	cttacaaatt	acttattggt	agtttcttgg	gaaagtaaaa	ttgagatatt	88800
aagattctat	gaaattgggt	ggtgggtattg	aagactgtgc	tgctgctgct	gctactgtc	88860
cagaactcta	tgggagatat	tacaaatggg	agcagaaaaa	gtgagaagg	ggtctgtaga	88920
gacagagcac	agcagagagg	tagaaagggt	gagataaaga	aacaatgcag	tgagagaagg	88980
agagaacaca	gacatagaaa	cagagacata	aaggcaccag	acacgagagc	agagataatt	89040
taataaggcc	gtagtttctc	ttggatttcc	agttccttct	tttagtcaat	tctgatattt	89100
agcacactgc	actgcaccag	atatcttgct	gccttcaa	aaagtatttt	tcccccttaa	89160
acatgcta	ttgggcttgt	attatttgca	atcaatagaa	ttgagaaaaa	cactctatgt	89220
catatctgaa	ctagtatatc	agaatgggtt	tctgccattg	gtaacagaga	cccagctcaa	89280
tggcttaaac	acacaagggt	ttatcctgtc	acattaacaa	aaaaaaaaag	gcagagtagc	89340
agtcgggggt	tgggaatagg	tccacaaagt	catctggggc	caggcttcat	ctatctttct	89400
cttacatcac	aagtgacttc	tgtctacaag	gccccctcat	gtccacaatt	gattgttttt	89460
acaacagctt	tccaaagagc	agaaagaaaa	acaagtagaa	gagcttgtac	tttctttttct	89520
atztatgtca	cctctgctta	catctcacta	gccagatata	gacatatggc	cccatctacc	89580
tgcacagaaa	tctcagaaat	gtaatttttt	agcttgcca	ttgcccagg	ttctgttact	89640
agggagaag						89650

<210> 6
 <211> 2260
 <212> DNA
 <213> Homo sapiens

<400> 6						
atttgaattg	gtgaacttag	taaagcagac	ggctctcacc	aataagggca	ggcatcatcc	60
aatctgtcga	aagcttgaat	aaaacaaaaa	gaggaaggga	aaatttgctt	cttttcttct	120
tgatctagta	tatcatcttc	tctgcccctt	ggatgtgagt	gggccttcag	acttaaacca	180
ggagttacac	ctttggcttc	cctgggttctc	agttcttttg	acttggactg	aattacactg	240
ccaggtttcc	tggttctcca	gcttgcagat	ggcagatcat	gggacttctt	ggcctccata	300
attgttttca	tatctccagg	cctttcattg	ggtcagggtt	gcatttctgt	gccctttatg	360
tgtgtgacaa	gtgaaaataa	ggaaagaaaa	aaactcaagt	gaagaaaatc	agaatctgcg	420
cagcagttcc	tgggcgtttc	agctgcttcc	cacatcacct	gcctcatcaa	gccccagcat	480
ccatctcctt	gctcatctta	cacctgtgt	gcatgacagg	cccaccattc	atztatcaga	540
gcaaaggctc	tcccactatt	ctggttcacc	cccctactta	gccagatata	caagaatatc	600
tgacaggatg	acctgcctca	cctgggagct	cagaggagct	cagattccat	tactatcgca	660
ccaaggacag	atctcccagc	agaatgaca	gaaaagacta	actgccccca	aatctccct	720
tccaaaacac	agttctctta	attctcccaa	gaaaccagaa	tgtgactgct	cacctctcta	780
aggacctgaa	aacaactggc	catttcagct	atttaaatac	actttaaaaa	atccaaccgc	840
caaaatatta	aaccattttg	gttggaatga	taacataact	aacctgctga	cagctgcttc	900
tgctagggtgc	aaaaatggaa	aaaaaaatc	ttctaactcag	gtcaaatcac	tctacctttg	960
ggattctaaa	ttctactcata	ttctcaaaga	aatatattca	gtcatagtgg	ggaaaaatagg	1020
attattcctt	tagctcgata	agcaaccaga	agttcttctt	tcaaatcttg	acatttaatac	1080

aatcagaaat	tgatttttgg	aaaactgttt	cctatgaagc	tatctctgcc	tgaaggattt	1140
ttctttttaca	atccagacta	tagaaggaaa	ttcacacct	ggactttcac	ctccattggg	1200
cagagtttta	ctgaccaatt	cccacctctg	ccttacacct	aacggaagtt	tatgcctggt	1260
ttctcttcac	ataccccaac	agttacaaat	ggttgttatt	attaagcatc	ttttattttg	1320
tggcctctga	ttacatggtc	ccctaaattt	tgacctaata	acaaaagatt	ggtaaaattt	1380
cttaacatat	taataatatt	ttgtttatgt	gtcaatatct	tagcatgtat	caattaagac	1440
agaggtctta	acgttctctt	tttgaaagag	aatattagga	ttcagagata	ttaagagatt	1500
ctcccaggat	cacagttagg	taacagagct	ggatttttagt	ccaggtctgt	ctacagctct	1560
aacgtatata	caccctttgt	ataacatgtc	acgaattcag	cataaaggga	tcttcagtga	1620
tctaagtcag	gggtcagcaa	ccttttctaa	aaaggaccaa	atagtaatat	ttcaggcttt	1680
gtggacccta	tggctctctat	cataactggt	caaataacca	tgtagtgtaa	aaggagccat	1740
aagcaaaata	taaactaacg	aatgtggctg	ttttatggga	ttttttttta	actctttatt	1800
tacaaaagca	ggtggcagat	cagaactcac	ttatgggcca	tagttctctg	acccctgacc	1860
tgagaaaatc	ttatatttat	ggacaacatt	tagactgtga	cttgccaagt	aagaacaaga	1920
agctctgtca	actgaaggtc	aaggctggag	ttctgaaagc	aaagagctgt	ctgggtgttaa	1980
tgataagtga	aatagttaaa	gttagaagat	cccagttata	agaagcacia	agaataatga	2040
ccatagactc	ctgaacaaga	atgtctggac	ttctggctta	ggcactcttg	ttgtatggtc	2100
caggccaagt	tacctaattc	ctccaggcct	ccattttctt	atcattaaat	gaagataata	2160
aaagtatttt	cctcagagag	ctgtaagaat	aaactgagct	aacccatgtc	aagcacatag	2220
aatagggccc	agcctatatt	aatttatcaa	taaatgccag			2260

<210> 7

<211> 2817

<212> DNA

<213> Homo sapiens

<400> 7

atttgaattg	gtgaacttag	taaagcagac	ggctctcacc	aataagggca	ggcatcatcc	60
aatctgtcga	aagcttgaat	aaaacaaaaa	gaggaagggg	aaatttgctt	cttttcttct	120
tgatctagta	tatcatcttc	tcctgccctt	ggatgtgagt	gggccttcag	acttaaacca	180
ggagttacac	ctttggcttc	cctgggtctc	agttcttttg	acttggaactg	aattacactg	240
ccaggtttcc	tggttctcca	gcttgagat	ggcagatcat	gggacttctt	ggcctccata	300
attgtgggca	aaaaggaaaag	agacaaaaca	gcatgaaatg	atgagaccaa	gtgatgaaaa	360
ttcattcaca	atgattgctt	tcaagagtaa	tttctcttgg	gtaattcagc	agcctgttac	420
tatggctctc	tggagtata	gctaattgta	atgaagcctc	taaaagtgga	ttatcctgac	480
agaatatac	tcagccaata	atgcaacaga	aatccattca	aagcattcgg	gaaaaattca	540
aaagaataaa	tattcttttt	ttttttttta	agttaatgac	ctacgatcca	tttcttcctt	600
gactaacaag	tacgaagcac	ttaaaaatat	ccagccagga	tgaaatagaa	acccacctga	660
cttggttaata	tttttggttg	gtcccagggg	ctcagattct	aagccaaatt	ctttgaatga	720
tcttgccaaa	tgtctcgaat	tatttttggc	aacttttctt	tatcttggaa	aaaaagtttc	780
atgaatgggt	gtcaaaattg	attagtttta	aaaaccttct	ttgcagatac	gtatggcacc	840
ctaaaactgt	attagaaaaa	aatttcatat	ctccaggcct	ttcattgggt	cagggttgga	900
tttcgctgcc	ctttatgtgt	gtgacaagtg	aaaataagga	aagaaaaaaa	ctcaagtga	960
gaaatcaga	atctgcgcag	cagttcctgg	gcgtttcagc	tgcctccac	atcacctgcc	1020
tcatcaagcc	ccagcatcca	tctccttgct	catcttacac	cctgtgtgca	tgacaggccc	1080
accattcatt	tatcagagca	aaggctctcc	cactattctg	gttcaccccc	ctacttagcc	1140
agatatata	gaatatctgc	acggatgacc	tgctcaccct	gggagctcag	aggagctcag	1200
attccattac	tatcgacca	aggacagatc	tcccagcaag	aatgacagaa	aagactaact	1260
gcccccaaaa	tctcccttcc	aaaacacagt	tctcttaatt	ctcccaagaa	accagaatgt	1320
gactgctcac	ctctctaagg	acctgaaaac	aactggccat	ttcagctatt	taaatcaact	1380
ttaaaaaatc	caaccgccaa	aatattaaac	cattttgggt	ggaatgataa	cataactaac	1440
ctgctgacag	ctgcttctgc	taggtgcaaa	aatggaaaaa	aaaatacttc	taatcaggtc	1500
aaatcactct	acctttggga	ttctaaattt	actcatattc	tcaaagaaat	atattcagtc	1560
atagtgggga	aaataggatt	attccttttag	ctcgataagc	aaccagaagt	tcttccttca	1620
aatcttgaca	tttaatcaat	cagaaattga	tttttgga	actgtttcct	atgaagctat	1680
ctctgcctga	aggatttttc	ttttacaatc	cagactatag	aaggaaattc	acaacctgga	1740
ctttcacctc	cattgggtcag	agttttactg	accaattccc	acctctgcct	tacacctaac	1800

ggaagtttat	gcctgttttc	tcttcacata	ccccacagt	tacaaatggt	tgttattatt	1860
aagcatcttt	tattttgtgg	cctctgatta	catgggcccc	taaattttga	cctaatacaca	1920
aaagattggt	aaaatttctt	aacatattaa	taatattttg	tttatgtgtc	aatatcttag	1980
catgtatcaa	ttaagacaga	ggtcttaacg	ttctcttttt	gaaagagaat	attaggattc	2040
agagatatta	agagattctc	ccaggatcac	agttaggtaa	cagagctgga	ttttagtcca	2100
ggtctgtcta	cagctctaac	gtatatacac	cctttgtata	acatgtcacg	aattcagcat	2160
aaagggatct	tcagtgatct	aagtcagggg	tcagcaacct	tttctaaaaa	ggaccaaata	2220
gtaatatctt	aggctttgtg	gaccctatgg	tctctatcat	aactgttcaa	atcaccatgt	2280
agtgtaaaag	gagccataag	caaaatataa	actaacgaat	gtggctgttt	tatgggattt	2340
ttttttaact	ctttattttac	aaaagcaggt	ggcagatcag	aactcactta	tgggccatag	2400
ttctctgacc	cctgacctga	gaaaatctta	tatttatgga	caacatttag	actgtgactt	2460
gccaaagtaag	aacaagaagc	tctgtcaact	gaaggtcaag	gctggagtcc	tgaaagcaaa	2520
gagctgtctg	gtgttaaatga	taagtgaat	agttaaagtt	agaagatccc	agttataaga	2580
agcacaaga	ataatgacca	tagactcctg	aacaagaatg	tctggacttc	tggcttaggc	2640
actcttggtg	tatggtccag	gccaaagtac	ctaactcttc	caggcctcca	ttttcttatt	2700
attaaatgaa	gataataaaa	gtattttcct	cagagagctg	taagaataaa	ctgagctaac	2760
ccatgtcaag	cacatagaat	agggcccagc	ctatattaat	ttatcaataa	atgccag	2817

<210> 8

<211> 1970

<212> DNA

<213> Homo sapiens

<400> 8

atttgaattg	gtgaacttag	taaagcagac	ggctctcacc	aataagggca	ggcatcatcc	60
aatctgtcga	aagcttgaat	aaaacaaaaa	gaggaaggga	aaatttgctt	cttttcttct	120
tgatctagta	tatcatcttc	tcctgccctt	ggatgtgagt	gggccttcag	acttaaacca	180
ggagttacac	ctttggcttc	cctggttctc	agttctttgg	acttggaactg	aattacactg	240
ccaggtttcc	tggttctcca	gcttgagat	ggcagatcat	gggacttctt	ggcctccata	300
attgtgtatc	cccactgtgt	agagctggtc	cacaatggag	aggaggaaaa	gttttgcat	360
ggaccaaate	actgccttag	aaggaaagag	attgcaatcc	cattcatttt	taagatctgc	420
aatgggttgg	gatgataccc	atttaaaaaa	gaaaaaaaaa	gaggttacct	ctttggcctc	480
tttggcaaa	gatatgaact	agtaataaa	cctcagcatc	aaggcttggg	agtctggctc	540
aaagtggcta	agactagaag	catcttctaa	cataaatatg	gcagcattag	gaaaatagct	600
tggccttttag	agagaccag	attatcttca	ccttaaaaaa	taccaagacc	ctggtccagc	660
aagaccacca	tcacagcagt	aaatacatag	ccaccaactt	cacagaaggt	tttccactga	720
gacattgtga	aaaccacaat	ccattaccgg	tggatgagtc	ccagctctct	tactacctgg	780
agcttccaag	caagacttac	ctgtcctttg	ttccagattg	gttcctggga	tcctggacca	840
acacaaaag	aagaggaag	cctcaaggga	aataaaagtg	aaggtttcag	tgatagttaa	900
aatatatatt	tttaaatgtt	agcttttttt	taaatacttc	acagtgatgg	atggagtatt	960
tcaaccacaa	tggcaaagaa	tgaattaccg	gcagtgtcag	agtttcttgt	tgctgtggga	1020
agacagctgc	catgttgaga	ggtgccttgt	ggagaggctc	atgtggcgag	gaactgagac	1080
tggcttctat	ccaacaacca	gtgaggaact	aaggccctaa	agtcctatag	tccacaagga	1140
actaaatcct	accaacaact	acatgagtga	gcctggaatc	tgattttccc	cagtggggac	1200
ttaaggtacc	tacaacctgg	ctgttatggg	ctaaactgca	tcctgcccac	atttatatgt	1260
ttgagtctta	actcccagca	cttcagaaca	tggttttgtt	tggagacata	gtcattaaag	1320
aggtaatgaa	gttaaaatga	ggtcattagg	atgagtccta	atccaatagg	actggtgttc	1380
ttatatgaag	aggaaatttg	aacacagaca	catatacagg	aaagaccatg	cgaagaagac	1440
acagagagga	aacggccatc	tacaatccaa	ggagagaggc	ctcagaacaa	gccaaccctg	1500
cagatacctt	gatctaggca	tccagaattg	tatgaaaata	cattttttgtt	atttaagcta	1560
cccagtctgt	ggtgctttgt	tatggcaatc	ccagaaaact	aattaactaa	ttgactgcag	1620
ccttgcaagg	gaccctgaac	cagaggaccc	agttaagcca	tgtgcagatt	cctgactcac	1680
agaactagga	gataacaaat	gtttgttgtt	ctaaggtgct	aaatgttggg	aaaatatgtt	1740
atgtggctat	gttgttttgc	acatgtgcc	cataatgatg	ttttgggtcaa	caacagacca	1800
cacatatgat	ggtgggccc	taagattgta	atactgtgtt	tctattatgc	attctctatt	1860
tatagataca	caaatacttg	ccactgtgtt	acaattgcct	actgtcttca	gtactgtaac	1920
atgctgtaca	ggtttgtagc	ccagaagcaa	tagactatac	catacagtca		1970

<210> 9
 <211> 1989
 <212> DNA
 <213> Homo sapiens

<400> 9
 tttgcaggcc cggcacagtc tcagttcccc acagcacaga gaggaagcaa ggtctttgca 60
 tgccctgttc acttggccaa acattgccct agatgtgcaa ttcaacccat ataaagcaag 120
 cgtaattcaa gagccctgac tctttcacca tttcatgatg gcttattact cgcacacggc 180
 attgtcaggt tccagcaact ctgtgtgcag caggcagaaa tgcagtgttt atctctgaca 240
 ggcaaacatt cttaggctca tcggcatgag tatccacgct gaactggcta tcggggaagt 300
 agatccctgc atgggaaagt caaggatatcc ccactgtgta gagctgggtcc acaatggaga 360
 ggaggaaaag ttttgcattg gaccaaataca ctgccttaga aggaaagaga ttgcaatccc 420
 attcattttt aagatctgca atgggttggg atgataccca tttaaaaaag aaaaaaaaag 480
 aggttacctc tttggcctct ttggcaaagg atatgaacta gtaataaagc ctcagcatca 540
 aggcttggga gtctggctca aagtggctaa gactagaagc atcttctaac ataaatatgg 600
 cagcattagg aaaatagctt ggccctttaga gagaccaga ttatcttcac cttaaaaaact 660
 accaagacc tggccagca agaccaccat cacagcagta aatacatagc caccaacttc 720
 acagaagggt tccactgag acattgtgaa aaccacaatc cattaccggg ggatgagtc 780
 cagctctctt actacctgga gcttccaagc aagacttacc tgtcctttgt tccagattgg 840
 ttccctggat cctggacca cacaagaga agaggaaagc ctcaaggga ataaaagtga 900
 aggtttcagt gatagtttaa atatatattt ttaaattgta gctttttttt aaatacttca 960
 cagtgtgga tggagtattt caaccacaat ggcaaagaat gaattaccgg cagtgtcaga 1020
 gtttcttgtt gctgtgggaa gacagctgcc atgttgagag gtgccttgtg gagaggctca 1080
 tgtggcgagg aactgagact ggcttctatc caacaaccag tgaggaacta aggcctaaa 1140
 gtccatagat ccacaaggaa ctaaataccta ccaacaacta catgagttag cctggaatct 1200
 gattttcccc agtggggact taaggtagct acaacctggc tgttatgggc taaactgcat 1260
 cctgccccaa tttatatgtt tgagtcttaa ctcccagcac ttcagaacat ggtttttgtt 1320
 ggagacatag tcattaaaga ggtaatgaag ttaaaatgag gtcattagga tgagtcctaa 1380
 tccaatagga ctggtgttct tatatgaaga ggaaatttga acacagacac atatacagga 1440
 aagaccatgc gaagaagaca cagagaggaa acggccatct acaatccaag gagagaggcc 1500
 tcagaacaag ccaacctgc agataccttg atctaggcat ccagaattgt atgaaaatac 1560
 atttttgtta ttttaagctac ccagtctgtg gtgctttgtt atggcaatcc cagaaaacta 1620
 attactaat tgactgcagc cttgcaaggg accctgaacc agaggacca gtttaagccat 1680
 gtgcagattc ctgactcaca gaactaggag ataacaaatg tttgttgttc taagggtgta 1740
 aatgttggga aaatatgtta tgtggctatg ttgttttgca catgtgccac ataattgat 1800
 tttggtcaac aacagaccac acatatgatg gtgggcccac aagattgtaa tactgtgtt 1860
 ctattatgca ttctctattt atagatacac aaataactgc cactgtgtta caattgccta 1920
 ctgtcttcag tactgtaaca tgctgtacag gtttgtagcc cagaagcaat agactatacc 1980
 atacagtca 1989

<210> 10
 <211> 1955
 <212> DNA
 <213> Homo sapiens

<400> 10
 tttcatatct ccaggccttt cattgggtca gggttggcatt tcgctgcoct ttatgtgtgt 60
 gacaagtga aataaggaaa gaaaaaaact caagtgaaga aaatcagaat ctgcgcagca 120
 gttcctgggc gtttcagctg cttcccacat cacctgcctc atcaagcccc agcatccatc 180
 tccttgcctc tcttacaccc tgtgtgcatg acaggccac cattcattta tcagagcaaa 240
 ggctctccca ctattctggg tccccccct acttagccag atatacaaga atatctgcac 300
 ggatgacctg cctcacctgg gagctcagag gagctcagat tccattacta tcgcaccaag 360
 gacagatctc ccagcaagaa tgacagaaaa gactaactgc ccccaaaatc tcccttccaa 420
 aacacagttc tcttaattct cccaagaaac cagaatgtga ctgctcacct ctctaaggac 480
 ctgaaaacaa ctggccattt cagctattta aatcaacttt aaaaaatcca accgcaaaa 540

tattaaacca	ttttggttg	aatgataaca	taactaacct	gctgacagct	gcttctgcta	600
ggtgcaaaaa	tggaaaaaaa	aatacttcta	atcagggtcaa	atcactctac	ctttgggatt	660
ctaaatttac	tcatattctc	aaagaaatat	attcagtcac	agtggggaaa	ataggattat	720
tccttttagct	cgataagcaa	ccagaagttc	ttccttcaaa	tcttgacatt	taatcaatca	780
gaaattgatt	tttgaaaaac	tgtttcctat	gaagctatct	ctgcctgaag	gatttttctt	840
ttacaatcca	gactatagaa	ggaaattcac	aacctggact	ttcacctcca	ttggtcagag	900
ttttactgac	caattcccac	ctctgcctta	cacctaacgg	aagtttatgc	ctgttttctc	960
ttcacatacc	ccaacagtta	caaatggttg	ttattattaa	gcattcttta	ttttgtggcc	1020
tctgattaca	tggtccccta	aattttgacc	taatcacaaa	agattggtaa	aatttcttaa	1080
catattaata	atattttggt	tatgtgtcaa	tatcttagca	tgtatcaatt	aagacagagg	1140
tcttaacggt	ctctttttga	aagagaatat	taggattcag	agatattaag	agattctccc	1200
aggatcacag	ttaggtaaca	gagctggatt	ttagtccagg	tctgtctaca	gctctaactg	1260
atatacaccc	tttgataaac	atgtcacgaa	ttcagcataa	agggatcttc	agtgatctaa	1320
gtcaggggtc	agcaaccttt	tctaaaaagg	accaaatagt	aatatttcag	gctttgtgga	1380
ccctatgggtc	tctatcataa	ctgttcaaat	caccatgtag	tgtaaaagga	gccataagca	1440
aaatataaac	taacgaatgt	ggctgtttta	tgggattttt	ttttaactct	ttattttacaa	1500
aagcaggtgg	cagatcagaa	ctcacttatg	ggccatagtt	ctctgacccc	tgacctgaga	1560
aaatcttata	tttatggaca	acatttagac	tgtgacttgc	caagtaagaa	caagaagctc	1620
tgtcaactga	aggtaacggc	tggagtctctg	aaagcaagaa	gctgtctggt	gttaagtata	1680
agtgaatatg	ttaaagttag	aagatcccag	ttataagaag	cacaaagaat	aatgaccata	1740
gactcctgaa	caagaatgtc	tggacttctg	gcttaggcac	tcttgttgta	tgggtccaggc	1800
caagttacct	aatctctcca	ggcctccatt	ttcttatcat	taaatgaaga	taataaaagt	1860
attttctctca	gagagctgta	agaataaact	gagctaacc	atgtcaagca	catagaatag	1920
ggcccagcct	atattaattt	atcaataaat	gccag			1955

<210> 11

<211> 9458

<212> DNA

<213> Homo sapiens

<400> 11

atltgaattg	gtgaacttag	taaagcagac	ggctctcacc	aataagggca	ggcatcatcc	60
aatctgtcga	aagcttgaat	aaaacaaaaa	gaggaaggga	aaatttgctt	cttttcttct	120
tgatctagta	tatcatcttc	tcttgccttc	ggatgtgagt	gggccttcag	acttaaacca	180
ggagttacac	ctttggcttc	cctggttctc	agttcttttg	acttggactg	aattacactg	240
ccaggtttcc	tggttctcca	gcttgcagat	ggcagatcat	gggacttctt	ggcctccata	300
attgtgtgag	tcaatttcca	ttttatttac	atatccagtt	atgcattgct	taacaatgga	360
gacaggttct	tgaaaatgca	ttgttaagtg	atltcatcat	tgtgcaaaca	tcatagagtg	420
taactacaca	aacctggaca	gcatagacta	ctacacatct	aggctacatg	gtgtagcttg	480
taacctcatg	ataagtatgt	ataacatcat	gataagtatg	tatgtatcta	ccatatctaa	540
atgtagaaaa	ggtacagtaa	aaatatggta	taatcttatg	ggatcaccat	catatatgca	600
atcctttgta	gactgaaatg	tattgtgtga	gtgcatgact	gtatacgcac	acatacacaa	660
acacacacaa	atatactatt	ggttcttttt	ctctgaagag	ccctaataca	atatgtttata	720
cattttatatt	gactctattt	caaaatttat	ggttttggtg	aaacatatgt	ggagatgggg	780
cataggtgtg	tgaactggga	tagtgtcctg	ctgatgaatg	ggtgggaggc	atcatttggg	840
acaagcccag	ggcatcagct	tatagatatc	aagagctcaa	caagagcact	ttatggcaaa	900
acctcccaca	agacctctca	gaagttgaga	aactgctaaa	agtttcttta	tgacagatga	960
cattttatgga	taaaataggg	attagcagga	ttcttttaaat	actttcgaac	actaaccttc	1020
atltctacca	ggcagtgagg	ccccaaagtgc	agggccatag	gaagtacaag	tctgggagat	1080
actaggtctg	actgtctgta	gagaatctga	aaaaataata	gagtcactga	aatgcagttt	1140
ggtataatta	ttgccatgca	tcataattct	aaatcatact	agtgggtcaaa	tactcttccc	1200
tgaaaaaaca	ttttcttggt	ttgaattcta	aataattggt	gtgggtcacca	ctgagctttt	1260
aaatatataa	atactttcaa	gtttgcata	ttttattacc	tgttctttaa	caaacattga	1320
attcaacatg	aaaatgatta	tgggaaacat	tcgggtatac	agtccttgac	tcttaaggac	1380
tcaggtaaat	acttagggta	tttcatggcc	ctagtctttg	gggtaccaca	tgtttcttct	1440
tcaaatcaca	gattcaaat	caagaatgat	aacacagtga	ttgtgtagac	aaaataagtg	1500
aaccaaaatt	gcttgcttct	gtcattctat	ggaaccactg	agagttttta	cttgtgctta	1560

aaatTTTTgaa	tagtaaaaca	gagtgtcaac	ttcatgctgg	aatatTTTTg	gctTTTTtaga	1620
cacaatTTTTa	agtacatgaa	gtatTTTTac	aagactaagt	aacatcactg	aaattacagc	1680
tttcttctttt	ttaaaactgg	tatttgttat	aaaactaaag	agcgaatcaa	gaaaagcata	1740
attattactg	attattacag	gattattact	gaaaaagaaa	tgtacggaat	agaggaggaa	1800
ggagTTaaca	aatgatccac	tctgggtggt	gaaaacacca	ataagcctgc	ttccagggaag	1860
tgCCTaagac	agagctggct	cagcttgctg	ggTcacagca	tgtAaggaaa	ctgctgggct	1920
acatgccacc	atcctcagtt	gtccagatag	ataatcccat	agcccatgg	ggaaataatc	1980
tttaattatg	atatagctga	caccattcaa	agcactatgc	taagtccttt	atgtgaatta	2040
acttttgtca	aattttatttt	tcataaataa	cccaaatatg	tataccacta	ttatcctacc	2100
ttaaagagga	gaaactgagc	tcctaaagtt	taaatatcta	acccaagtta	agactgctag	2160
tcaccctagg	ctattaactc	aggcagtcct	actcaggtat	aataacatta	tgctactggt	2220
tgCagctttg	actatgcctg	aattataacg	tcatgctatc	taactaaaaa	gctaagggaa	2280
ataaaatgag	ccatagggct	caatttcata	aaaggagaga	aaatactggg	gaaaagtgat	2340
aatgcagagt	ttaaaatatt	tttgtaaaag	tgccagagat	tgagtataac	aagtgtgacc	2400
aaaaaaaaaaaa	aaaaaaaaaaaa	aaaaggaaga	aggtaaaaaa	aagagggagg	tctgagaaat	2460
agaaatatca	gaggaaggaa	ataaaggagg	gtgagagtaa	attctctttt	agcattcaga	2520
ttccacagat	tccacaaatc	acatttcttt	ttttaccaac	taaggaaaaa	taacacttga	2580
cctaacatttt	acttgcagtt	agctaaagga	tgttagaaaa	actatgttgc	agtgggttgc	2640
tctaattttct	tcaggaattag	agaaaagtg	caaaaagatc	agagaagaga	agaaaggaaa	2700
ctatcagaaa	aatacagaat	tggagtagga	tataacatat	ttgggttgaa	ggtaaaattt	2760
tatattgtaa	tcttaagtat	cttgctactt	cagtttggtc	cctggaacag	cagcatcaga	2820
atctgccgag	ggcttggttaa	aaaggcagaa	tctcaggtcc	catcccagac	tactgaatc	2880
agaatataaa	tactgacaag	atgccccggg	attcatatgc	acagtagagc	tggcgaagtt	2940
ccattgtagc	ctgtgattgt	tttctgcaac	ttagtatttc	tgagttttcc	caaggaagaa	3000
aaccCaggcc	ttagcttctg	gcagacttgt	gtttctcctt	tacttactag	ctgcatgact	3060
catgagcaag	gaaatcaaac	tttatgtgcc	tgagtttcct	catctataaa	atggagacta	3120
taataatcat	ctcctaggct	tgttttgagg	atgttcaaca	aatgctcctt	tcattcctct	3180
atttacagac	ctgccgcaga	caattctgct	agcagccttt	gtgctattat	ctgttttcta	3240
aacttagtaa	ttgagtgtga	tctggagact	aactctgaaa	taaataagct	gattattttat	3300
ttatTTTTctc	aaaacaacag	aatacgattt	agcaaattac	ttcttaagat	attatTTTTac	3360
atttctatat	tctcctaccc	tgagttgatg	tgtgagcaat	atgtcacttt	cataaaagcca	3420
ggtatacatt	atggacaggt	aagtaaaaaa	catattattt	attctacgtt	tttgtccaaa	3480
aatttttaaat	ttcaactggt	gcgcgtgtgt	tggtaatgta	aaacaaactc	agtacagtag	3540
tattcagtag	agtattttaag	ccccgtgact	taaacatat	cctcgtacca	atgaagttac	3600
atgaaaagca	aatttgtgtg	agatatcgta	gatggaagta	aattagtctt	tatgttcccc	3660
acaaattgaa	atgcatttca	aaaactctgt	gtgtgtatgt	gtgtgtgtga	cagagtgtgt	3720
gtgagagaga	gacagagaga	tacgctttgg	ttgcctccat	aagctggctg	ctatgattaa	3780
taagaccaag	ttttctaaag	aaaatgagat	cataacaaaa	gccctcttta	tgactatctt	3840
ttatcagggg	caaaaaggaa	agagacaaaa	cagcatgaaa	tgatgagacc	aagtgatgaa	3900
aattcattca	caatgattgc	tttcaagagt	aatttctctt	gggtaattca	gcagcctggt	3960
actatggctc	tctggagtga	tagctaattg	aaatgaagcc	tctaaaagtg	gattatcctg	4020
acaagaatat	actcagccaa	taatgcaaca	gaaatccatt	caaagcattc	gggaaaaatt	4080
caaaagaata	aatattcttt	tttttttttt	aaagttaatg	acctacgatc	catttcttcc	4140
ctgactaaca	agcagcaagc	acttaaaaaa	atccagccag	gatgaaatag	aaaccacact	4200
gacttggttaa	tatttttggt	tggtcccagg	gactcagatt	ctaagccaaa	ttctttgaa	4260
gatcttggca	aatgtctcga	attatTTTTg	ccaacttttc	tttatcttgg	aaaaaaagtt	4320
tcatgaatgg	gtgtcaaaat	tgattagttt	taaaaacctt	tcttgcatat	acgtatggca	4380
ccctaaaact	gtattagaaa	aaaagtaagt	actctgtagt	gtgaaaaatt	cttaaaggac	4440
accctctttt	acaaactcac	aaaaacagcc	tttgggaatac	ccacatgaag	tagctgttgt	4500
tattgctttc	tatataccta	catcttgtct	attataaaaa	gactggtttt	tggcaggtgt	4560
ggtggctcac	acctgtaatt	ccagcacttt	gggaggccaa	ggcgggcgga	tcacctgaga	4620
tcaggagttc	aggaccagcc	tgatcaatat	ggtgaaaccc	agtctttact	gaaaatacaa	4680
aaatcaccCg	ggtgtggtga	cgggcgcctg	tagtcccagc	tactcgggta	gctgaggcag	4740
gagaatcact	tgaactcagg	agtcagaggt	tgCagtgagc	tgagatcatg	ccactgcact	4800
ccagcctggg	tgacagagca	agactccatc	tcaaaaaaaa	aaaaaaaaaa	gactgggttt	4860
tcaacagcta	ttcccacccc	tctgcatgga	aatattcacc	cagtcaattg	ttttcctagt	4920
ttgggtaatg	gccctctggg	caggactgga	gtgggggcaca	caggagaagc	tgcaaaactat	4980

gtttagaagc	atgtctgga	aatgtcatgc	aagaaaagac	atattttaaag	gtaggctttg	5040
catgaatgga	aaaggagagt	aattctatgt	agagcagagc	ctcttacttg	cagtgaagaga	5100
agcaaaagt	gggaagcaag	aggaattatg	cttttcatca	gccaaatttg	caggtaggag	5160
gattggctca	gtcatcttg	ctgaggctca	tgaaccagg	tgtaaagaaa	gtggactaga	5220
ttaatttcat	ccattacagg	aagaggagcc	gtgaaagata	atccagaaat	cattgggatt	5280
tgatggtaga	aggtattttg	ggactattcc	atttgaaatg	agaaggtagc	tgacattctt	5340
tgaattcctt	tcaagcaaag	gattaaat	acccatgagt	tgactcagaa	aaaacataaa	5400
aagtattggt	gctctgctca	gagttttatc	taactcattc	tcacttctta	ttccatgatg	5460
aaatgacata	aatgaggttt	tttattgttg	ttgttgttg	tttctggaca	caaggcaagg	5520
tagctacctg	ggcagagctg	ttttatttct	ctatgccgtg	gagagaaatt	ggtaatttgg	5580
ccatggaagg	cagtcattaa	gatgttccca	tgcgagtga	ctttccagg	ttcccagctt	5640
ctgcatcctt	ccctgtccct	caattccatt	gttgggtgat	acaatgtctc	tcccatcagc	5700
ctcatgaagt	tctctctcat	ttattaaaat	ttgctttcag	gaaaaatttt	gaaaatgtgt	5760
ccagtaatgc	ctgattggcc	ccttatccta	aaggcttaaa	ctggaggaag	gaagctaaac	5820
tgagaaatct	tgcaaatcat	tgagccaaaa	acgtattaat	agcaagatct	atcattttatt	5880
gactagtatg	tggcaggcag	tgccctttta	tttaggcagg	gagagttgat	ggggggggcg	5940
gggttcacac	atcttaaaga	ggtgctatct	cctcctatat	aatcatgta	agtcaagaga	6000
gtaaggaatt	gtctttgttt	ggttatattc	aggggattag	agtatacagt	agaagatccc	6060
aagaaacctt	gggactat	tagactaaga	aatgccata	ccgccggcg	cgggtggctca	6120
cgctgtta	ccagcactt	tgagaggccg	aggtggggcg	atcacaagg	caggagattg	6180
agaccgtcct	ggctaacgtg	gtgaaacctt	gtctctacta	aaaatacaaa	aaattagccg	6240
ggcgtggtgg	cgggcgctg	tagtcccagc	tactcgggag	gcggaggcag	gagaatggtg	6300
tgaactcagg	aggcggagct	tgagtcagc	cgagattgcc	ccaatgcact	ccagcctggg	6360
cgacagaacg	agactccgtc	tcagaacaaa	acaaaaggaa	atgccaatac	cagcagaaat	6420
agagccaaat	catgaacata	agctaaacaa	atgttggcag	tgtagcctag	tggttaagag	6480
agcagactct	taactagaac	actgcactcc	atgtcctcac	tgtagaccct	cactgtgggg	6540
ttctaattaa	cccctgttac	ttaccagtgg	cagtcttaag	gcattcctta	agttcgttgt	6600
gccccaat	gttcatctgt	agaaggggta	ggatgacagt	agtgtttact	ttataggctt	6660
actgtgagca	ttaaatgagt	tactactgta	tttgtaaagt	gcttaaaatg	ctgctccaaa	6720
agagtttgtt	aaacacttaa	gaactgattt	acttgcactt	aaactgacag	ctctcaataa	6780
ctggaaatga	tcaagcatag	gccctggaat	ataagcagg	ctacatgaag	gcaaaaatgt	6840
tctgttcttt	tggttcagccc	tgtgcctaga	tcaatatcta	gtgatcatgc	tcaagaaata	6900
ttgttgaatg	aatcaatgaa	cctaccgagg	tagttacata	aaagagttct	gcagtagtac	6960
aaatctgggc	aaagtgcctt	ccaaggaaat	ttccactttt	agattctgtg	atttccctaa	7020
ggaactgata	aattgggtgtg	atacaatgta	aaaaaatgtg	cctatatgat	ttgagaaaaa	7080
cttattttct	ctccctcttt	ttccctctct	tccttccctc	ctccctctct	tccttccctc	7140
ctccctctct	tcctccctcc	ctccctctct	tccttctctt	tccttctttt	tttctttctt	7200
tccttctttt	tttctttctt	tccttctttt	tttctttctt	ctcttctctt	tccttctttt	7260
cttctttctt	ttgtgccttt	cttctttctt	ttctttcttc	tctgtccttt	cttcttctct	7320
ttctttcttt	ctgcctttct	ttctctttgt	tttctttctt	ttccttcttt	tttcttttaa	7380
gcagaccatg	tctgttagat	gaatgccttt	ttctagttaa	aagggttaaac	aggaaagtga	7440
agcacaatta	tcaagggtct	ccagtcactt	ccacatgttc	ttaatcatta	tcttctttta	7500
cagtttcata	tctccaggcc	tttcattggg	tcagggtggc	atttcgctgc	cctttatgtg	7560
tgtgacaagt	gaaaataagg	aaagaaaaaa	actcaagtga	agaaaatcag	aatctgcgca	7620
gcagttcctg	ggcgtttcag	ctgcttccca	catcacctgc	ctcatcaagc	cccagcatcc	7680
atctccttgc	tcatcttaca	cctgtgtg	atgacaggcc	caccattcat	ttatcagagc	7740
aaaggctctc	ccactattct	ggttcacccc	cctacttagc	cagatatata	agaatatctg	7800
cacggatgac	ctgcctcacc	tgggagctca	gaggagctca	gattccatta	ctatcgccac	7860
aaggacagat	ctcccagcaa	gaatgacaga	aaagactaac	tgcccccaaa	atctcccttc	7920
caaaacacag	ttctcttaat	tctcccaaga	aaccagaatg	tgactgctca	cctctctaag	7980
gacctgaaaa	caactggcca	tttcagctat	ttaaatcaac	tttaaaaaat	ccaaccgcca	8040
aaatattaaa	ccattttggt	tggaaatgata	acataactaa	cctgctgaca	gctgcttctg	8100
ctaggtgcaa	aaatggaaaa	aaaaatactt	ctaatacagg	caaatcactc	tacctttggg	8160
attctaaatt	tactcataat	ctcaaagaaa	tatatcag	catagtgggg	aaaataggat	8220
tattccttta	gctcgataag	caaccagaag	ttcttctt	aaatcttgac	atttaataaa	8280
tcagaaattg	atctttggaa	aactgtttcc	tatgaagcta	tctctgcctg	aaggattttt	8340
cttttacaat	ccagactata	gaaggaaatt	cacaacctgg	actttcacct	ccattgggtca	8400

gagttttact	gaccaattcc	cacctctgcc	ttacaccta	cggaagttaa	tgccctgtttt	8460
ctcttccat	acccaacag	ttacaaatgg	ttgttattat	taagcatctt	ttattttgtg	8520
gcctctgatt	acatgggtccc	ctaaattttg	acctaatac	aaaagattgg	taaaatttct	8580
taacatatta	ataatatttt	gtttatgtgt	caatatctta	gcatgtatca	attaagacag	8640
aggtcttaac	gttctctttt	tgaaagagaa	tattaggatt	cagagatatt	aagagattct	8700
cccaggatca	cagttaggta	acagagctgg	attttagtcc	aggtctgtct	acagctctaa	8760
cgtatataca	ccctttgtat	aacatgtcac	gaattcagca	taaagggatc	ttcagtgatc	8820
taagtcaggg	gtcagcaacc	ttttctaaaa	aggaccaa	agtaatat	caggctttgt	8880
ggaccctatg	gtctctatca	taactgttca	aatcaccatg	tagtgtaaaa	ggagccataa	8940
gcaaaatata	aactaacgaa	tgtggctgtt	ttatgggatt	tttttttaac	tctttattta	9000
caaaagcagg	tggcagatca	gaactcactt	atggggcata	gttctctgac	ccctgacctg	9060
agaaaatctt	atatttatgg	acaacattta	gactgtgact	tgccaagtaa	gaacaagaag	9120
ctctgtcaac	tgaaggtcaa	ggctggagtt	ctgaaagcaa	agagctgtct	ggtgttaatg	9180
ataagtga	tagttaaagt	tagaagatcc	cagttataag	aagcacaag	aataatgacc	9240
atagactcct	gaacaagaat	gtctggactt	ctggcttagg	cactcttggt	gtatggtcca	9300
ggccaagtta	cctaactctt	ccaggcctcc	attttcttat	cattaaatga	agataataaa	9360
agtattttcc	tcagagagct	gtaagaataa	actgagctaa	cccatgtcaa	gcacatagaa	9420
tagggccag	cctatattaa	tttatcaata	aatgccag			9458

<210> 12
 <211> 552
 <212> DNA
 <213> Homo sapiens

<400> 12	
attatgtaga	accattccaa
acaaacattt	ggaggagggg
actgaaagga	acagctgcga
ccagcaccat	tcagcagtaa
gcacagtctc	agttccccac
ttggccaaac	attgccctag
gccctgactc	tttcaccatt
cagcaactct	gtgtgcagca
taggetcatc	ggcatgagta
gggaaagtca	ag
	552

<210> 13
 <211> 305
 <212> DNA
 <213> Homo sapiens

<400> 13	
atttgaattg	gtgaacttag
aatctgtcga	aagcttgaat
tgatctagta	tatcatcttc
ggagttacac	ctttggcttc
ccaggtttcc	tggttctcca
attgt	
	305

<210> 14
 <211> 307
 <212> DNA
 <213> Homo sapiens

<400> 14	
atttgaattg	gtgaacttag
aatctgtcga	aagcttgaat

tgatctagta	tatcatcttc	tectgccctt	ggatgtgagt	gggccttcag	acttaaacca	180
ggagttacac	ctttggcttc	cctgggttctc	agttccttgg	acttggactg	aattacactg	240
ccaggtttcc	tggttctcca	gcttgccagat	ggcagatcat	gggacttctt	ggcctccata	300
attgtgt						307

<210> 15
 <211> 557
 <212> DNA
 <213> Homo sapiens

<400> 15						
gggcaaaaag	gaaagagaca	aaacagcatg	aaatgatgag	accaagtgat	gaaaattcat	60
tcacaatgat	tgctttcaag	agtaatttct	cttgggtaat	tcagcagcct	gttactatgg	120
ctctctggag	tgatagctaa	tgtaaataaa	gcctctaaaa	gtggattatc	ctgacaagaa	180
tatactcagc	caataatgca	acagaaatcc	attcaaagca	ttcgggaaaa	attcaaaaga	240
ataaatattc	tttttttttt	tttaaagtta	atgacctacg	atccatttct	tccctgacta	300
acaagcagca	agcacttaaa	aatatccagc	caggatgaaa	tagaaacca	cctgacttgt	360
taatattttt	gtttgggtccc	agggactcag	attctaagcc	aaattccttg	aatgatcttg	420
gcaaatgtct	cgaattattt	ttgccaaact	ttctttatct	tggaaaaaaa	gtttcatgaa	480
tgggtgtcaa	aattgattag	ttttaaaaac	ctttcttgca	gatacgtatg	gcaccctaaa	540
actgtattag	aaaaaaa					557

<210> 16
 <211> 1955
 <212> DNA
 <213> Homo Sapiens

<400> 16						
tttcatatct	ccaggccttt	cattgggtca	ggttggcatt	tcgctgccct	ttatgtgtgt	60
gacaagtga	aataaggaaa	gaaaaaaaact	caagtgaaga	aaatcagaat	ctgcgcagca	120
gttctctggc	gtttcagctg	cttcccacat	cacctgcctc	atcaagcccc	agcatccatc	180
tccttgctca	tcttacaccc	tgtgtgcatg	acaggcccac	cattcattta	tcagagcaaa	240
ggctctccca	ctattctggg	tcacccccct	acttagccag	atatacaaga	atatctgcac	300
ggatgacctg	cctcacctgg	gagctcagag	gagctcagat	tccattacta	tcgcaccaag	360
gacagatctc	ccagcaagaa	tgacagaaaa	gactaactgc	ccccaaaatc	tcccttccaa	420
aacacagttc	tcttaattct	cccaagaaac	cagaatgtga	ctgctcacct	ctctaaggac	480
ctgaaaacaa	ctggccattt	cagctattta	aatcaacttt	aaaaaatcca	accgccaaaa	540
tattaaacca	ttttgggtgg	aatgataaca	taactaacct	gctgacagct	gcttctgcta	600
ggtgcaaaaa	tggaaaaaaa	aataacttcta	atcagggtcaa	atcactctac	ctttgggatt	660
ctaaattttac	tcatattctc	aaagaaatat	attcagtcac	agtggggaaa	ataggattat	720
tccttttagct	cgataagcaa	ccagaagttc	ttccttcaaa	tcttgacatt	taatcaatca	780
gaaattgatt	tttgaaaaac	tgtttcctat	gaagctatct	ctgcctgaag	gatttttctt	840
ttacaatcca	gactatagaa	ggaaattcac	aacctggact	ttcacctcca	ttggtcagag	900
ttttactgac	caattcccac	ctctgcctta	cacctaacgg	aagtttatgc	ctgttttctc	960
ttcacatacc	ccaacagtta	caaagtgttg	ttattattaa	gcattctttta	ttttgtggcc	1020
tctgattaca	tggtccccta	aattttgacc	taatcacaaa	agattggtaa	aatttcttaa	1080
catattaata	atattttgtt	tatgtgtcaa	tatcttagca	tgtatcaatt	aagacagagg	1140
tcttaacggt	ctctttttga	aagagaatat	taggattcag	agatattaag	agattctccc	1200
aggatcacag	ttaggtaaca	gagctggatt	ttagtccagg	tctgtctaca	gctctaactg	1260
atatacaccc	tttgataaac	atgtcacgaa	ttcagcataa	agggatcttc	agtgatctaa	1320
gtcaggggtc	agcaaccttt	tctaaaaagg	accaaatagt	aatatttcag	gctttgtgga	1380
ccctatgggt	tctatcataa	ctgttcaaat	caccatgtag	tgtaaaagga	gccataagca	1440
aaatataaac	taacgaatgt	ggctgtttta	tgggattttt	ttttaactct	ttattttacaa	1500
aagcaggtgg	cagatcagaa	ctcacttatg	ggccatagtt	ctctgacccc	tgacctgaga	1560
aaatcttata	tttatggaca	acatttagac	tgtgacttgc	caagtaagaa	caagaagctc	1620
tgtcaactga	aggccaaggc	tggagttctg	aaagcaaaga	gctgtctggg	gttaatgata	1680
agtgaatatg	ttaaagttag	aagatcccag	ttataagaag	cacaaagaat	aatgaccata	1740

gactcctgaa	caagaatgtc	tggacttctg	gcttaggcac	tcttggttga	tggtccaggc	1800
caagttacct	aatctctcca	ggcctccatt	ttcttatcat	taaatgaaga	taataaaaagt	1860
attttcctca	gagagctgta	agaataaaact	gagctaacc	atgtcaagca	catagaatag	1920
ggcccagcct	atattaattt	atcaataaat	gccag			1955

<210> 17
 <211> 1253
 <212> DNA
 <213> Homo Sapiens

<400> 17						
tatccccact	gtgtagagct	ggtccacaat	ggagaggagg	aaaagttttg	cattggacca	60
aatcactgcc	ttagaaggaa	agagattgca	atcccattca	tttttaagat	ctgcaatggg	120
ttgggatgat	acccatttaa	aaaagaaaaa	aaaagaggtt	acctcttttg	cctctttggc	180
aaaggatatg	aactagtaat	aaagcctcag	catcaaggct	tgggagtctg	gctcaaagtg	240
gctaagacta	gaagcatctt	ctaacataaa	tatggcagca	ttaggaaaat	agcttggcct	300
ttagagagac	ccagattatc	ttcaccttaa	aaactaccaa	gaccctggtc	cagcaagacc	360
accatcacag	cagtaaatac	atagccacca	acttcacaga	aggttttcca	ctgagacatt	420
gtgaaaacca	caatcatta	ccggtggatg	agtcacagct	ctcttactac	ctggagcttc	480
caagcaagac	ttacctgtcc	tttgttccag	attggttcct	gggatcctgg	accaacacaa	540
agagaagagg	aaagcctcaa	gggaaataaa	agtgaagggt	tcagtgatag	tttaaataata	600
tatttttaaa	tgtagctttt	tttttaataa	cttcacgggt	atggatggag	tatttcaacc	660
acaatggcaa	agaatgaatt	accggcagtg	tcagagtttc	ttgttgctgt	gggaagacag	720
ctgccatggt	gagaggtgcc	ttgtggagag	gctcatgtgg	cgaggaaactg	agactggctt	780
ctatccaaca	accagtggag	aactaaggcc	ctaaagtctt	atagtccaca	aggaactaaa	840
tcctaccaac	aactacatga	gtgagcctgg	aatctgattt	tccccagtgg	ggacttaagg	900
tacctacaac	ctggctgtta	tgggctaaac	tgcattcctgc	ccaaatttat	atgtttgagt	960
cttaactccc	agcacttcag	aacatgggtt	tgtttgagga	catagtcatt	aaagaggtaa	1020
tgaagttaaa	atgaggtcat	taggatgagt	cctaatacaa	taggactggg	gttcttatat	1080
gaagaggaaa	tttgaacaca	gacacatata	caggaaagac	catgcgaaga	agacacagag	1140
aggaaacggc	catctacaat	ccaaggagag	aggcctcaga	acaagccaac	cctgcagata	1200
ccttgatcta	ggcatccaga	attgtatgaa	aatacatttt	tgttatttaa	gct	1253

<210> 18
 <211> 366
 <212> DNA
 <213> Homo sapiens

<400> 18						
atgttcaaca	aatgctcctt	tcattcctct	atttacagac	ctgccgcaga	caattctgct	60
agcagccttt	gtgctattat	ctgtttttcta	aacttagtaa	ttgagtgtga	tctggagact	120
aactctgaaa	taaataagct	gattattttat	ttatttttctc	aaaacaacag	aatacgattt	180
agcaaattac	ttcttaagat	attatttttac	atctctatat	tctcctaccc	tgagttgatg	240
tgtgagcaat	atgtcacttt	cataaagcca	ggtatacatt	atggacagggt	aagtaaaaaa	300
catattattt	attctacgtt	tttgtccaaa	aatttttaaat	ttcaactgtt	gcgcgtgtgt	360
tggtaa						366

<210> 19
 <211> 21
 <212> RNA
 <213> Homo sapiens

<400> 19		
aauaagggca	ggcaucaucc	a
		21

<210> 20
 <211> 21

<212> RNA
 <213> Homo sapiens

 <400> 20
 aaauacacug ccagguuucc u 21

 <210> 21
 <211> 21
 <212> RNA
 <213> Homo sapiens

 <400> 21
 aaaucauuc caaugauugc u 21

 <210> 22
 <211> 21
 <212> RNA
 <213> Homo sapiens

 <400> 22
 aaauucucuu ggguaauuca g 21

 <210> 23
 <211> 21
 <212> RNA
 <213> Homo sapiens

 <400> 23
 aaaucagaa ucugcgagc a 21

 <210> 24
 <211> 21
 <212> RNA
 <213> Homo sapiens

 <400> 24
 aaugaugaug ggaagaagga a 21

 <210> 25
 <211> 21
 <212> RNA
 <213> Homo sapiens

 <400> 25
 aaacuuagua auugagugug a 21

 <210> 26
 <211> 21
 <212> RNA
 <213> Homo sapiens

 <400> 26
 aaauaugucac uuucauaaag c 21

 <210> 27
 <211> 21
 <212> RNA

<213> Homo sapiens
 <400> 27
 aaugaugaug ggaagaagga a 21
 <210> 28
 <211> 21
 <212> RNA
 <213> Homo sapiens
 <400> 28
 aaacuaugag auuucagaag g 21
 <210> 29
 <211> 14
 <212> DNA
 <213> Homo sapiens
 <220>
 <221> primer_bind
 <222> (0)...(0)
 <223> Exon overlapping oligonucleotide primer F26
 <400> 29
 agacggctct cacc 14
 <210> 30
 <211> 21
 <212> DNA
 <213> Homo sapiens
 <220>
 <221> primer_bind
 <222> (0)...(0)
 <223> Exon overlapping oligonucleotide primer FDP5
 <400> 30
 cacttgtcac acacataaag g 21
 <210> 31
 <211> 21
 <212> DNA
 <213> Homo sapiens
 <220>
 <221> primer_bind
 <222> (0)...(0)
 <223> cDNA oligonucleotide primer FDP5
 <400> 31
 cctttatgtg tgtgacaagt g 21
 <210> 32
 <211> 22
 <212> DNA
 <213> Homo sapiens

<220>
 <221> primer_bind
 <222> (0)...(0)
 <223> cDNA oligonucleotide primer F10

 <400> 32
 atccagccag gatgaaatag aa 22

 <210> 33
 <211> 20
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> primer_bind
 <222> (0)...(0)
 <223> upstream primer human VH family leader sequence
 VH1

 <400> 33
 ccatggactg gacctggagg 20

 <210> 34
 <211> 21
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> primer_bind
 <222> (0)...(0)
 <223> upstream primer human VH family leader sequence
 VH2

 <400> 34
 atggacatac tttgttccag c 21

 <210> 35
 <211> 20
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> primer_bind
 <222> (0)...(0)
 <223> upstream primer human VH family leader sequence
 VH3

 <400> 35
 ccatggagtt tgggctgagc 20

 <210> 36
 <211> 20
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> primer_bind

<222> (0)...(0)
 <223> upstream primer human VH family leader sequence
 VH4

 <400> 36
 atgaaacacc tgtggttctt 20

 <210> 37
 <211> 20
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> primer_bind
 <222> (0)...(0)
 <223> upstream primer human VH family leader sequence
 VH5

 <400> 37
 atgggggtcaa ccgcgatcct 20

 <210> 38
 <211> 20
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> primer_bind
 <222> (0)...(0)
 <223> upstream primer human VH family leader sequence
 VH6

 <400> 38
 atgtctgtct ccttcctcat 20

 <210> 39
 <211> 21
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> primer_bind
 <222> (0)...(0)
 <223> down stream primer C1

 <400> 39
 gaggctcagc gggaagacct t 21

 <210> 40
 <211> 21
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> primer_bind
 <222> (0)...(0)
 <223> down stream primer C 2

<400> 40 ggggaagacc gatgggcccc t	21
<210> 41 <211> 20 <212> DNA <213> Homo sapiens	
<220> <221> primer_bind <222> (0)...(0) <223> northern blot primer	
<400> 41 tcacctggga gctcagagga	20
<210> 42 <211> 20 <212> DNA <213> Homo sapiens	
<220> <221> primer_bind <222> (0)...(0) <223> northern blot primer	
<400> 42 gtgatcctgg gagaatctct	20
<210> 43 <211> 25 <212> DNA <213> Homo sapiens	
<220> <221> primer_bind <222> (0)...(0) <223> RACE antisense primer	
<400> 43 tacattacca acacacgcg c aacag	25